

CURRICULUM VITAE

LEE E. OSTRANDER, PH.D.

Rensselaer Polytechnic Institute
Troy, New York 12180-3590
(518) 276-6293 (Voice)
(518) 276-3035 (Fax)
email: ostral@rpi.edu

Updated: August 17, 2000

PROFESSIONAL APPOINTMENTS

1984-present Executive Officer, Biomedical Engineering Dept., R.P.I., Troy, NY.
1976-present Assoc. Prof. of Biomedical Engineering, R.P.I., Troy, NY.
1994-96 Vice President, Lights On Technologies, Troy, NY.
1982-83 Assoc. Dean of the Graduate School, R.P.I., Troy, NY.
1974-76 Bioengr., Clinical Research Dept., Medical Center, S.C. Johnson and Son,
Racine, WI, in collaboration with Medical College of Wisconsin.
1970-74 Assoc. Prof. of Biomedical Engineering, School of Medicine, Case Western
Reserve University, Cleveland, OH.
1966-74 Assoc. Prof. (1970-74), Asst. Prof. (1966-70), and Research Assoc. (1965-66),
Biomedical Engineering, Case Western University, Cleveland, OH.
Summer 1964 Electrical Engineer, Carrier Air Conditioning, Syracuse, NY.
Summer 1962 Electrical Engineer, Taylor Instruments Co., Rochester, NY.

EDUCATION AND RESEARCH DEVELOPMENT

1961 A.B. with major in physics, Hamilton College, Clinton, NY.
1963 M.S. in Electrical Engineering, University of Rochester, Rochester, NY.
1966 Ph.D. in Electrical Engineering, University of Rochester, Rochester, NY.
1970-74 NIH Career Development Award, Case Western Reserve University.

PROFESSIONAL ACTIVITIES

1991-95 Elected Member (Region 1), Administrative Committee
1992-93 Chairman, IEEE/EMBS Education Committee
1985-86 Chairman, ASEE Biomedical Engineering Division
1983-1997 Consultant, VA Medical Center Research Service, Castle Point, NY
1982-84 Chairman, IEEE/EMBS Nominating Committee
1982 President, IEEE Engineering in Medicine and Biology Society
1981-84 Member, IEEE Publications Board
1981 Senior Member, Biomedical Engineering Society (BMES)
1980-83 Member, BMES Board of Directors
1977 Senior Member, IEEE

PUBLICATIONS: (122)

HONORS AND AWARDS

- 1992 Founding Fellow, American Institute for Med. and Biol. Engineering (AIMBE)
1970-74 NIH Career Development Award
1961-66 National Aeronautics and Space Administration Trainee
Eastman Kodak Fellow
New York State Teaching Fellow
1961 Southworth Prize in Physics
1960 Pi Delta Epsilon recognition for founding WHCL, the campus broadcast station at Hamilton College.

ACADEMIC SERVICE

- 1992-present Advisor, IEEE/EMBS student chapter, R.P.I.
1989-91 Elected Member, R.P.I. Faculty Council
1984-present Biomedical Engineering Transfer Student Advisor
1985-88 Chairman, R.P.I. Animal Care and Use Committee
1982-83 Chairman, Rensselaer Graduate Fellowship Committee
1982-83 Chairman, Rensselaer Graduate Tuition Committee
1982-83 Chairman, Rensselaer Graduate Advisory Committee
1982 Organized Rensselaer Graduate Orientation
1976-86 Clinical Engineering Program Coordinator
1976-81 Chairman, Biomedical Engineering Undergraduate Committee
1973-74 Chairman, Graduate Education Committee for Biomedical Engineering
1970-72 Elected member, University Faculty Senate
1968-69 Chairman, Admissions Committee
1968-70 Chairman, Academic Standing Committee

PATENT

A Reflectance Sensor System (Number 5,513,642)

PUBLICATIONS

1. Ostrander, L.E. *The Use of Inner Product Concepts in Obtaining Process Representations*, Ph.D. Thesis, University of Rochester, 1966.
2. Csermely, T. and Ostrander, L.E. "Identification of the frequency response function of a heat exchanger by statistical correlation and spectral analysis using discrete interval binary noise signals," *Proc. Third International Heat Transfer Conference*, A.I.Ch.E., New York, NY, vol. 1:149-158, 1966.
3. Gann, D. Schoeffler, J. and Ostrander, L.E. "A Boolean model for the adrenal cortical response to hemorrhage," *International Conference on Medicine and Biology*, San Francisco, Pergamon Press, p.236, 1966.
4. Gann, D., Ostrander, L.E. and Schoeffler, J. "A model for the description of the adrenal cortical response to hemorrhage," *International Conference on Medical and Biological Engineering*, Pergamon Press, p. 295, 1967.
5. Ostrander, L.E., Brand, J. and Fleming, D. "Ventilatory response to inspired carbon dioxide," Session 9.2, *Ann. Conf. on Engineering in Medicine and Biology*, Bethesda, 1967.
6. Gann, D. and Ostrander, L.E. "Extensions of a Boolean model of the adrenocortical response to hemorrhage," Session 8.2, *Ann. Conf. on Engineering in Medicine and Biology*, Bethesda, 1967.
7. Ostrander, L.E. and Cohen, G. "The use of inner product concepts in obtaining process representations," *Proc. Allerton Conf. on Circuit and Systems Theory*, Illinois, 5:104-111, 1967.
8. Ostrander, L.E., Gann, D. and Schoeffler, J. "Finite state models with Boolean variables," Rochester Conf. on Data Acquisition and Processing in Biology and Medicine, *Pergamon Press*, 5:207-222, 1968.
9. Schoeffler, J., Ostrander, L.E. and Gann, D. "Formulations of finite state models of biological control systems," *Systems Theory and Biology* (ed. M.D. Mesarovic), Springer-Verlag, 201-222, 1968.
10. Gann, D., Schoeffler, J. and Ostrander, L.E. "A finite state model for the control of adrenal corticosteroid secretion," *Systems Theory and Biology* (ed. M.D. Mesarovic), Springer-Verlag 185-200, 1968.

11. Orr, D., Ostrander, L.E. and Gann, D., "Dynamics of presentation of ACTH to the adrenal gland after hemorrhage," Session 2-8, *8th International Conf. on Medicine and Biological Engineering*, Chicago, 1969.
12. Ostrander, L.E. and Chester, E. "Frequency analysis of pulmonary pressure-flow data," *Annual Conference on Engineering in Medicine and Biology*, Bethesda, MD, 23:208, 1970.
13. Franck, J., Ostrander, L.E. and Chester, E.H. "Frequency dependent behavior of pulmonary mechanics in obstructive lung disease," *Ann. Conf. on Engineering in Medicine and Biology*, Bethesda, MD, 24:226, 1971.
14. Ostrander, L.E., Schneider, A.J.L. and Gorsky, B.H. "Indirect measurement of pulmonary intrapleural pressure," *Ann. Conf. on Engineering in Medicine and Biology*, Bethesda, MD, 25:258, 1971.
15. Ostrander, L.E. "Numerical approximations for the Fourier transform of continuous data," *IEEE Transactions on Audio and Electroacoustics*, AU-19:103-107, 1971.
16. Plonsey, R., Ostrander, L.E., Gann, D., Macklin, M. and Fleming, D. "Continuing scientific education of life scientists in mathematics," *T.-I.-T. Life Science*, Tokyo, Japan, 1:25-27, 1971.
17. Ostrander, L.E. "Circuit for parallel operation of TTY and remote device," *Decuscope Digital Equipment Users Society*, Maynard, MA, 11:5-6, 1972.
18. Ostrander, L.E. and Brand, J.E. "Functional Boolean models for systems with continuous variables," *Journal of Theoretical Biology*, 38:665-675, 1973.
19. Ostrander, L.E., Chester, E.H. and Franck, J.B. "Fundamental frequency analysis of pulmonary mechanical resistance and compliance," *Journal of Applied Physiology*, 35:526-537, 1973.
20. Ernst, E.A., Lasdon, L.S., Ostrander, L.E. and Divell, S.S. "Anesthesiologist scheduling using a set partitioning algorithm," *Computers and Biomedical Research*, 6:561-569, 1973.
21. Nelson, D., Ostrander, L.E., Ernst, E. and Baetz, W. "Flow limited properties of teflon and silicone diffusion membranes," *Oxygen Transport to Tissue*, (ed. Bicher, H. and Bruley, D.) Plenum Press 37:121-125, 1973.
22. Nelson, D., Ernst, E.A., Ostrander, L.E. and Baetz, W. "Harvest effects of diffusion membrane catheters with application to measurement of gas transport," *International Symposium on Oxygen Transport to Tissue*, Charleston-Clemson, p.92, 1973.

23. Ostrander, L.E., Nelson, A.D., Ernst, E.A. and Baetz, W. "Concentration and flow rate measurements with a single diffusion membrane catheter," *Proc. Annual Conference on Engineering in Medicine and Biology*, Bethesda, MD, 26:416, 1973.
24. Nelson, A.D., Ostrander, L.E., Baetz, W. and Ernst, E.A. "Experimental verification of a model for oxygen delivery and consumption in tissue," (abstract) *Federation American Societies of Experimental Biology*, Bethesda, MD, 1974.
25. Burma, G., Ostrander, L.E. and Schneider, A.J.L. "Determination of lung intrapleural pressure from filtered venous pressure measurement," *Annual Conference on Engineering in Medicine and Biology*, Bethesda, MD, 26:416, 1974.
26. Baetz, W., Ernst, E.A., Ostrander, L.E. and Nelson, A.D. "Tissue perfusion during major vascular surgery," *American Soc. of Anesthesiologists Meet.*, Los Angeles, p.115, 1974.
27. Ostrander, L.E. "Mathematics of Biology," *Medical Engineering* (ed. Ray, C.D.), *Year Book Medical Publishers*, Chicago, Chapter 9:63-71, 1974.
28. Ostrander, L.E. "Statistical methods," *Medical Engineering* (ed. Ray, C.D.), *Year Book Medical Publishers*, Chicago, Chapter 10:72-79, 1974.
29. Chester, E.H., Ostrander, L.E., Franck, J.B. and Nieuwoehner, D. "Influence of breathing rate on airway resistance and compliance measurements," *Respiration Physiology*, 20:337-351, 1974.
30. Ostrander, L.E. "A data communication system for interactive linking of laboratory and remote computer," *Medical Instrumentation*, 9:147-148, 1975.
31. Ostrander, L.E., Nelson, D., Ernst, E. and Baetz, W. "Fluid flow effects on readings from the mass spectrometer with diffusion catheter," *IEEE Transactions on Biomedical Engineering*, BME-22:448-451, 1975.
32. Nelson, A.D., Ostrander, L.E. and Ernst, E.A. "Stir sensitive gas monitoring probes in tissue," (Session 4.1), *Meet. of the Assoc. for the Advancement of Medical Instrumentation*, Arlington, VA, 1975.
33. Ostrander, L.E. "Sensitivity of pulmonary function tests," (abstract) *Meet. of the Assoc. for the Advancement of Medical Instrumentation*, Arlington, VA, 1976.
34. Herrmann, A.A., Ostrander, L.E., Baretta, E.D., Soto, R.J., Schlueter, D.P. and Stewart, R.D. "Pulmonary mechanical response to acute low level chemical inhalation," *Society of Toxicology*, Toronto, 1977.

35. Ostrander, L.E. "A survey of biomedical engineering computer education," (abstract), *Meeting of the Assoc. for the Advancement of Medical Instrumentation*, Arlington, VA, 1977.
36. Ostrander, L.E., Chester, E.H. and Friedman, B.A. "Pulmonary impedance as a function of breathing frequency in obstructive lung disease," (abstract) *Meet. of Federation of American Societies of Experimental Biology*, Bethesda, MD, 1977.
37. Schlueter, D.P., Soto, R., Ostrander, L.E., Herrmann, A.A. and Stewart, R. "The partial flow-volume curve in methacholine and hair spray exposure," (abstract), *Wisconsin Thoracic Society*, Milwaukee, 1977.
38. Ostrander, L.E., Burma, G., Schneider, A. and Kreul, J. "A comparison of central venous pressure and pleural pressure in supine dogs," *Respiration Physiology*, 31:63-70, 1977.
39. Ostrander, L.E., Friedman, B. and Nelson, A.D. "Tissue gas transport during reduced flow," *Annual Conference on Engineering in Medicine and Biology*, Bethesda, MD, 31:89, 1978.
40. Acker, K., Ostrander, L.E., Newell, J.C., Nelson, A.D. and Ernst, E.A. "Monitoring of argon gas transport in tissue," *New England Bioengineering Conference*, Pergamon Press, 6:402-405, 1978.
41. Ostrander, L.E. "Education of the biomedical engineering professional," *New England Bioengineering Conference*, Pergamon Press, 6:221-224, 1978.
42. Ostrander, L.E. "A professional core for biomedical engineering," (event #2605), *American Society for Engineering Education Conference*, Washington, D.C., 1978.
43. Ostrander, L.E., with the staff of the Texas Instruments Learning Center "Biomedical Engineering," *Sourcebook for Programmable Calculators*, Texas Instruments, Chapter 9:1-30, 1978.
44. Baretta, E.D., Soto, R.J., Mellender, J.W. and Ostrander, L.E. "POISE - A computerized environmental monitoring system," *American Industrial Hygiene Association*, Los Angeles, 1978.
45. Ostrander, L.E., Newell, J.C., Thompson, S.E. and Powers, S.R. "Computerized information handling in clinical research," (session 3), *Ann. Conf. on Engineering in Medicine and Biology*, Bethesda, MD, 1978.
46. Ostrander, L.E. "Guidelines for clinical engineering educational programs" *Ann. Meet. of the Assoc. for the Advancement of Medical Instrumentation*, Arlington, VA, 14:188, 1979.

47. Ostrander, L.E. and Thompson, S.E. "Information flow and handling in the hospital," *Principles and Practices of Clinical Engineering* (ed. Webster, J.G.), Prentice-Hall Chapter 5:97-118, 1979.
48. Ostrander, L.E., Acker, K., Newell, J.C. and Friedman, B. "Tissue gas transport to a large diffusion membrane probe," (abstract), *International Society on Oxygen Transport to Tissue*, 1979.
49. Ostrander, L.E. "Presentation of the clinical engineering role to hospital administrators," *Journal of Clinical Engineering*, 4:11-19, 1979.
50. Schlueter, D.P., Soto, R.J., Baretta, E.D., Herrmann, A.A., Ostrander, L.E. and Stewart, R.D. "Airway response to hair spray in normal subjects and subjects with hyperreactive airways," *Chest*, 75:544-548, 1979.
51. Ostrander, L.E. (editor) *Seventh New England (Northeast) Bioengineering Conference*, Rensselaer Polytechnic Institute, Troy, Pergamon Press and IEEE Press, 1979.
52. Newell, J.C., Stratton, H.H., Deno, D.C., Gisser, D. and Ostrander, L.E. "On-line blood and respiratory gas analysis," *IEEE Transactions*, BME-27:523-527, 1980.
53. Ostrander, L.E. (editor) *Frontiers of Engineering in Health Care, IEEE/EMBS Conference*, IEEE Press, 1980.
54. Ostrander, L.E. and Friedman, B.F. "Aggregate responses during inert gas washout from tissue," (abstract), *Northeast Bioengineering Conference*, IEEE Press, 1980.
55. Paloski, W.H., Carpenter, W.A., Newell, J.C., Barie, P.S. and Ostrander, L.E. "A computer algorithm for calculation of P50 from a single blood sample," *IEEE/EMBS Conference*, Houston, 1981.
56. Ostrander, L.E. "Microelectronic monitors and controls in medical care". *Technologies of the '80s: Their Impact on Health Occupations*, (J.A. Jaffee, E.H. Oglesby, D.W. Drewes, editors) Conserva, Inc. for U.S. Dept. of Education, pp. 22-26, 1982.
57. Ostrander, L.E., Zwirkoski, L.J. and Lee, B.Y. "Perfusion in skeletal muscle following sympathectomy," *IEEE/EMBS Annual Conference*, (3pp.), 1982.
58. Ostrander, L.E., Paloski, W.H., Newell, J.C. and Barie, P.S. "A computer algorithm for calculation of P50 from a single blood sample," *IEEE Trans. Biomedical Engineering*, BME-30:250-254, 1983.

59. Ostrander, L.E. "Is the medical equipment user a part of the instrument system designed by the biomedical engineer?," (workshop abstract), *IEEE/EMBS Annual Conference*, 1984.
60. Lee, B.Y. and Ostrander, L.E. "Cutaneous perfusion pressure," *Annual Conference on Engineering in Medicine and Biology*, Los Angeles, 37:107, 1984.
61. Ostrander, L.E. and Hyman, W.A. "Workshop: incorporating operator requirements in medical equipment design," *IEEE Frontiers of Engineering and Computing in Health Care*, IEEE/EMBS Conference, p. 149, 1984.
62. Ostrander, L.E. and Soto, R.J. "Computers in Pulmonary Medicine," *Textbook of Pulmonary Diseases*, 3rd edition, (G. Baum and E. Wolinsky, editors), Little, Brown, and Co., Chapter 18: 369-379, 1984.
63. Ostrander, L.E., "Problems of the medical equipment user," *IEEE Engineering in Medicine and Biology Magazine*, 4:21-23, 1985.
64. Bakuzonis, C. and Ostrander, L.E. "Recent changes affecting the recruitment of clinical engineers," *Northeast Bioengineering Conference*, IEEE Press, Worcester Polytechnic Institute, (one page), 1985.
65. Ostrander, L.E. "The Bioinstrumentation Laboratory Experience," *American Society for Engineering Education Conference*, 8:1147-1150, 1985.
66. Newhouse, V.L., Mylrea, K.C., Topham, W.S., Ostrander, L.E., Pederson, P.C. and Feinberg, B. "Clinical engineering as an academic discipline," *J. of Clinical Engineering*, 10:203-19, 1985.
67. Ostrander, L.E., "The role of computers in reducing operator error," *Frontiers of Engineering and Computing in Health Care*, IEEE/EMBS Conference, pp. 175-179, 1985.
68. Golonka, L., Ostrander, L. and Katz, J.L. "The impact of advanced technologies on nursing care of patients," *Session on Human Factors in the Design, Selection, Use and Litigation of Medical Products*, (abstract), Meeting of the Assoc. for the Advancement of Medical Instrumentation, 20:33, 1985.
69. Ostrander, L., Frank, A., Daoud, A., Darcy, K. and Lee, B. "Characterizing atherosclerotic lesions by proton spectroscopy," (abstract), *Society of Magnetic Resonance Meeting*, Bethesda, MD, 1986.
70. Schwartz, H.M., Ostrander, L., Darcy, K., Frank, A.S. and Daoud, A. "Preliminary 1H NMR Studies of Human Aorta Wall Containing Lesions at 100 and 200 MHz,"

(abstract), *Gordon Conference on Magnetic Resonance in Biology and Medicine*, 1986.

71. Lee, B.Y. and Ostrander, L. "Severe obstructive vascular disease: can limbs be saved?" (abstract), *VA National R&D Conference*, Veterans Affairs Dept., Washington, D.C., 1986.
72. Ostrander, L.E. "Attention to the medical equipment user in biomedical engineering," *Medical Instrumentation*, 20:3-5, 1986.
73. Lee, B.Y., Ostrander, L., Thoden, W.R., Madden, J.L. "Use of cutaneous pressure photoplethysmography in managing peripheral vascular occlusive disease," *Contemporary Orthopaedics*, 13:51-58, 1986.
74. Ostrander, L. (guest editor), "Symposium on incorporating user requirements in medical equipment design," *Medical Instrumentation*, 20:1-26, 1986.
75. Von Maltzahn, W.W. and Ostrander, L.E., "Biomedical engineering: the struggle to prolong quality life," *IEEE Potentials*, 6:25-27, 1987.
76. Lee, B.Y., Ostrander, L.E., Thoden, W.R., Madden, J.L., "Effect of lumbar sympathectomy on muscle blood flow: distribution of perfusion measured by hydrogen clearance in skeletal muscle," *Journal of Rehabilitation Research and Development*, 24:1-8, 1987.
77. Lee, B.Y., Ostrander, L., Thoden, W.R., Madden, J.L. "Use of cutaneous pressure photoplethysmography in managing peripheral vascular disease," *Contemporary Surgery*, 30:58-67, 1987.
78. Ostrander, L.E., Lee, B.Y., and Cui, W. "Cutaneous pressure photoplethysmography for evaluating vascular disease," *Frontiers of Engineering and Computing in Medicine and Biology, IEEE/EMBS Conference*, (3 pages), 1987.
79. Lee, B.Y., Ostrander, L.E., Silverman, D., Thoden, W.R., Madden, J.L., McCann, W.J., "Intraoperative assessment of intestinal viability," *The New York Medical Quarterly*, 7:114-117, 1987.
80. Kandel, G.L., Ostrander, L.E., Simon, J.W. and Jenkins, P.L. "Microcomputer control of a PL grating acuity test," (abstract; T1, Suppl.96), *Inves. Ophthal. Visual Sci.*, 1987.
81. Ostrander, L.E. "Biomedical engineering opportunities brochure," *Biomedical Engineering Division Newsletter*, American Society for Engineering Education, pp. 3-6, Winter, 1987.

82. Sullo, P. and Ostrander, L.E. "Statistical Methods," *Encyclopedia of Medical Devices and Instrumentation* (ed. J. Webster), Wiley, pp. 2679-87, 1988.
83. Lee, B.Y., Ostrander, L.E., and Madden, J.L. "Optimum heparinization during vascular reconstructive surgery," *Contemporary Surgery*, 33:37-41, 1988.
84. Ostrander, L.E., Lee, B.Y. and Cui, W. "Noninvasive method for the assessment of anterior tibial compartment syndrome," *Surgical Forum*, American College of Surgeons, 39:539-541, 1988.
85. Ostrander, L.E., Lee, B.Y., Silverman, D.A., Groskopf, R.A., "Constant infusion fluorometry to predict flap survival," *Decubitus*, 2:40-46, 1988.
86. Ostrander, L.E. and Lee, B.Y. "Noninvasive evaluation of the cutaneous circulation in the management of pressure sores," *Decubitus*, 2:62, 1989.
87. Ostrander, L.E., Massi, M., Cui, W., and Lee, B.Y. "Viscoelastic measurements in soft tissue," (abstract), *15th Northeast Bioengineering Conference*, IEEE Press, 1989.
88. Ostrander, L.E., Kandel, G.L., Jenkins, P.L. and Simon, J.W. "A preferential looking clinical acuity test: improvements in implemented microcomputer control," *Behavior Research Methods, Instruments and Computers*, 21:421-425, 1989.
89. Ostrander, L.E., Cui, W. and Lee, B.Y., "The clinical use of green light photoplethysmography," *Surgical Forum*, American College of Surgeons, 40:520-22, 1989.
90. Ostrander, L.E., Cui, W., Groskopf, R. and Lee, B.Y., "Viscoelasticity of bulk limb tissue," *IEEE Conference on Engineering in Medicine and Biology*, 11:1421-2, 1989.
91. Monsalud, L., Ostrander, L.E. and Lee, B.Y., "The hydrogen polarographic probe transient response," *IEEE Conference on Engineering in Medicine and Biology*, 11:1459-69, 1989.
92. Cui, W. and Ostrander, L.E. "Layered optical property assessment by reflectance," *Northeast Bioengineering Conference*, 16:105-6, IEEE Press, 1990
93. Cui, W., Ostrander, L.E., and Lee, B.Y. "In vivo reflectance of blood and tissue as a function of light wavelength," *IEEE Transactions on Biomedical Engineering*, 37:632-639, 1990.
94. Silverman, D.G., Groskopf, R.W., Ostrander, L.E., Lee, B.Y., O'Connor, T.Z., and Brousseau, D.A. "Monitoring skin fluorescein delivery independent of skin pigmentation," *Surgery*, 108: 48-55, 1990.

95. Kandel, G. and Ostrander, L.E. "Preparation of the medical equipment designer: academic opportunities and constraints," paper presented at *FDA sponsored conference on operator error and medical equipment design*, Emergency Care Research Institute, Plymouth Meeting, PA, 1990.
96. Ostrander, L.E., Lee, B.Y., Silverman, D.G. and Groskopf, R.W. "A compartment model for fluorometric indication of tissue perfusion," *IEEE Transactions on Biomedical Engineering*, 37:1017-1023, 1990.
97. Cui, W. and Ostrander, L.E. "Assessment of layered properties in biological tissue from dual-wavelength optical reflectance measurements," *Conference of the IEEE Engineering in Medicine and Biology Society*, 12:1115-6, 1990.
98. Lee, B.Y., Cochran, G.V.B., Shaw, W.W., and Ostrander, L.E. (eds.), *Comprehensive Management of the Spinal Cord Injured Patient*, W.B. Saunders, San Diego, 1991.
99. Abrahams, J.M., Bhattacharyya, S., Ostrander, L.E., and Cui, W. "Effects of heat and exercise on surface light reflectance at 660 and 880 nm," *Proc. Northeast Bioengineering Conference*, IEEE Press, 17:137-8, 1991.
100. Cui, W., Ostrander, L.E., and Wang, N. "Imaging objects in a turbid medium with a redundant aperture," *Proc. International Conference of the IEEE Engineering in Medicine and Biology Society*, 13:241-2, 1991.
101. Ostrander, L.E. and Cui, W. "A demonstration of reflectance from muscle underneath dermis or fat in a layered ex vivo biological tissue model," *Proc. International Conference of the IEEE Engineering in Medicine and Biology Society*, 13:1755-56, 1991.
102. Lee, B.Y., Tsan, M.T., Cui, W., Ostrander, L.E., Madden, R.E. "Noninvasive evaluation of potential tissue viability and blood perfusion," (abstract) *Proc. of the XX World Congress of the International Society for Cardiovascular Surgery*, 1991.
103. Cui, W. and Ostrander, L.E. "The relationship of surface reflectance measurements to optical properties of layered biological media," *IEEE Transactions on Biomedical Engineering*, 39:194-201, 1992.
104. Lim, H.S. and Ostrander, L.E. "Effects of exercise on in vivo reflectance from the skin surface," *Proc. Northeast Bioengineering Conference*, IEEE Press, 1992.
105. Lim, H.S. and Ostrander, L.E. "Skin Surface Light Reflectance: Effects of Exercise," *Proc. International Conference of the IEEE Engineering in Medicine and Biology Society*, 14:125-6, 1992.

106. Ostrander, L.E. and Lee, B.Y. "Testing viscoelastic properties of biological soft tissue," *Proc. International Conference of the IEEE Engineering in Medicine and Biology Society*, 14:107-9, 1992.
107. Cui, W.J., and Ostrander, L.E. "The effect of local absorption changes on phase shift measurement using phase modulation spectroscopy," *SPIE Proceedings*, 1993.
108. Wisaksana, A., Ostrander, L.E., Cagir, B., and Lee, B.Y. "Measurement of mechanical properties of soft limb tissue as a diagnostic tool," *Proc. Northeast Bioengineering Conference*, 1993.
109. Muller, M.R. and Ostrander, L.E. "The effects of absorptive layers on light reflectance," *Proc. International Conference of the IEEE Engineering in Medicine and Biology Society*, pp. 1594-95, IEEE Press, 1993.
110. Lee, B.Y., Ostrander, L.E., Chu, G.A., Madden, R.E. "Distal thigh/arm index as a predictor of success for lumbar sympathectomy," *Journal of Rehabilitation Research*, 30.
111. Santoro, D., Ostrander, L., Lee, B.Y., and Cagir, B. "Inductive 27.12 MHz isothermy in arterial peripheral vascular diseases," (Poster and Short Paper Presentation) *Proc. 16th Annual International Conference*, IEEE Press, 1994.
112. Cagir, B., Rnagraf, M., Maffuci, L., Ostrander, L.E. and Herz, B.L. "A retrospective analysis of laparoscopic and open cholecystectomies," *J. Laparoendoscopic Surgery* 4:89-100, 1994.
113. Muller, M.R. and Ostrander, L.E. "A comparison of diffusive light reflectance from in vitro and in vivo media," *Proc. 20th Annual Northeast Bioengineering Conference*, IEEE Press, 1994.
114. Reu, P.L., Casalmir, P., Ostrander, L.E., Lee, B.Y., and Yoon, W. "Pressure at the residual limb-prosthesis interface," *Proc. 20th Annual Northeast Bioengineering Conference*, IEEE Press, 1994.
115. Muller, M.R., Santoro, D., Chang, H.U., Lee, B.Y., and Ostrander, L.E. "Oxygen measurement during limb blood flow restriction in primates," *Proc. 17th Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, pp. 1679-1680, 1995.
116. Lee BY, Ostrander LE, Karmarkar M, Frenkel L, Herz B. "Noninvasive quantification of muscle oxygen in normal subjects and patients with claudication," *J. Rehabilitation R&D*, 34:44-51, 1997.

117. Muller, M and Ostrander, LE. "Oxyhemoglobin measurement in tissue layers," *Proc. 19th Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, 1997.
118. Lee, BY and Ostrander LE. "Noninvasive evaluation of the cutaneous circulation." Surgical Management of Cutaneous Ulcers and Pressure Sores (ed. BY Lee and BL Herz), Chapman and Hall, 1998, pp. 14-26.
119. Brienza, D and Ostrander, LE. "Mechanical loading and pressure ulcers." Surgical Management of Cutaneous Ulcers and Pressure Sores (ed. BY Lee and BL Herz), Chapman and Hall, 1998, pp. 116-128.
120. Yildirim, O. and Ostrander, L.E. "Assessing Socket Differences in Fitting Prosthesis to Residual Limb", (Presentation and Short Paper) Northeast Bioengineering Conference, 1998.
121. Ostrander, L.E. and Muller, M. "Optical Property Measurement from Layered Biological Media," (Special Lecture and Presented Paper) The 4th Asia-Pacific Conference on Medical and Biological Engineering, Seoul, Korea, September 14, 1999
122. Ostrander, L.E. and Roysam, B. "Tailoring an introductory course in biomedical imaging," *International Journal for Engineering Education*, 15:265-9, 1999.