

Partial Publication List: Biomedical Engineering

References

- [1] C. H. G. Wright, S. F. Barrett, and A. J. Welch, "Design and development of a computer-assisted retinal laser surgery system," *SPIE J. Biomed. Opt.*, vol. 10, pp. ??-??, July 2006.
- [2] C. H. G. Wright, S. F. Barrett, and A. J. Welch, "Laser-tissue interaction," in *Medical Applications of Lasers* (D. R. Vij and K. Mahesh, eds.), ch. 2, pp. 21–58, Kluwer Academic Publishers, 2002.
- [3] E. Naess, T. Molvik, D. Ludwig, S. F. Barrett, S. Legowski, C. H. G. Wright, and P. W. de Graaf, "Computer-assisted laser photocoagulation of the retina: A hybrid tracking approach," *SPIE J. Biomed. Opt.*, vol. 7, pp. 1–11, Apr. 2002.
- [4] S. F. Barrett, C. H. G. Wright, and A. J. Welch, "Laser ophthalmology," in *Medical Applications of Lasers* (D. R. Vij and K. Mahesh, eds.), ch. 3, pp. 59–89, Kluwer Academic Publishers, 2002.
- [5] E. Naess, T. Molvik, S. F. Barrett, C. H. G. Wright, and P. W. de Graaf, "Irradiation control parameters for computer-assisted laser photocoagulation of the retina," in *Proceedings of the SPIE International Symposium on Biomedical Optics*, Jan. 2001. Paper 4245-04.
- [6] C. H. G. Wright, S. F. Barrett, and P. W. de Graaf, "Determining laser dosimetry for consistent retinal photocoagulation," *ISA Biomedical Sciences Instrumentation*, vol. 37, pp. 197–202, Apr. 2001.
- [7] C. H. G. Wright, S. F. Barrett, and P. W. de Graaf, "Determining laser dosimetry for consistent retinal photocoagulation," in *Proceedings of the 38th Rocky Mountain Bioengineering Symposium*, Apr. 2001.
- [8] C. H. G. Wright, S. F. Barrett, R. D. Ferguson, H. G. Rylander III, and A. J. Welch, "Initial *in vivo* results of a hybrid retinal photocoagulation system," *SPIE J. Biomed. Opt.*, vol. 5, pp. 56–61, Jan. 2000.
- [9] S. F. Barrett, C. H. G. Wright, and P. W. de Graaf, "Hybrid Digital/Analog tracking system," in *Proceedings of the SPIE International Symposium on Biomedical Optics (SPIE 3911-21)*, Jan. 2000.
- [10] P. W. de Graaf, S. F. Barrett, and C. H. G. Wright, "Deriving irradiation control parameters for laser photocoagulation on the retina," *ISA Biomedical Sciences Instrumentation*, vol. 36, pp. 39–44, Apr. 2000.
- [11] P. W. de Graaf, S. F. Barrett, and C. H. G. Wright, "Deriving irradiation control parameters for laser photocoagulation on the retina," in *Proceedings of the 37th Rocky Mountain Bioengineering Symposium*, Apr. 2000.
- [12] P. W. de Graaf, S. F. Barrett, and C. H. G. Wright, "A method to control irradiation time for laser photocoagulation of the retina: Part II," *ISA Biomedical Sciences Instrumentation*, vol. 35, pp. 159–163, Apr. 1999.
- [13] P. W. de Graaf, S. F. Barrett, and C. H. G. Wright, "A method to control irradiation time for laser photocoagulation of the retina: Part II," in *Proceedings of the 36th Rocky Mountain Bioengineering Symposium*, Apr. 1999.
- [14] C. H. G. Wright, P. W. de Graaf, and S. F. Barrett, "Signal processing for robotically assisted laser photocoagulation of the retina," in *Proceedings of the SPIE International Society for Optical Engineering Annual Conference*, July 1999. Paper 3809-20.
- [15] S. F. Barrett, P. W. de Graaf, and C. H. G. Wright, "Hybrid tracking system for retinal photocoagulation: Prototype II," *ISA Biomedical Sciences Instrumentation*, vol. 35, pp. 259–264, Apr. 1999.

- [16] S. F. Barrett, P. W. de Graaf, and C. H. G. Wright, "Hybrid tracking system for retinal photocoagulation: Prototype II," in *Proceedings of the 36th Rocky Mountain Bioengineering Symposium*, Apr. 1999.
- [17] C. Wright, E. Oberg, and S. Barrett, "Hybrid retinal tracking and coagulation system," in *Proceedings of the SPIE International Symposium on Biomedical Optics (SPIE 3246)*, pp. 185–191, Jan. 1998.
- [18] C. H. G. Wright, E. D. Oberg, and S. F. Barrett, "Integration of analog and digital retinal tracking and coagulation subsystems," *ISA Biomedical Sciences Instrumentation*, vol. 34, pp. 229–234, Apr. 1998.
- [19] C. H. G. Wright, E. D. Oberg, and S. F. Barrett, "Integration of analog and digital retinal tracking and coagulation subsystems," in *Proceedings of the 35th Annual Rocky Mountain Bioengineering Symposium*, Apr. 1998.
- [20] P. W. de Graaf, S. F. Barrett, and C. H. G. Wright, "A method to control irradiation time for laser photocoagulation of the retina," *ISA Biomedical Sciences Instrumentation*, vol. 34, pp. 82–86, Apr. 1998.
- [21] P. W. de Graaf, S. F. Barrett, and C. H. G. Wright, "A method to control irradiation time for laser photocoagulation of the retina," in *Proceedings of the 35th Annual Rocky Mountain Bioengineering Symposium*, Apr. 1998.
- [22] E. D. Oberg, S. F. Barrett, and C. H. G. Wright, "The development of a hybrid analog/digital retinal surgical laser system," *ISA Biomedical Sciences Instrumentation*, vol. 34, pp. 224–228, Apr. 1998.
- [23] E. D. Oberg, S. F. Barrett, and C. H. G. Wright, "The development of a hybrid analog/digital retinal surgical laser system," in *Proceedings of the 35th Annual Rocky Mountain Bioengineering Symposium*, Apr. 1998.
- [24] C. H. G. Wright, R. D. Ferguson, S. F. Barrett, H. G. Rylander III, A. J. Welch, and E. D. Oberg, "Hybrid retinal photocoagulation system using analog tracking," *ISA Biomedical Sciences Instrumentation*, vol. 33, pp. 366–371, Apr. 1997.
- [25] C. H. G. Wright, R. D. Ferguson, H. G. Rylander III, A. J. Welch, and S. F. Barrett, "Hybrid approach to retinal tracking and laser aiming for photocoagulation," *SPIE J. Biomed. Opt.*, vol. 2, pp. 195–203, Apr. 1997.
- [26] C. H. G. Wright, R. D. Ferguson, S. F. Barrett, H. G. Rylander III, A. J. Welch, and E. D. Oberg, "Hybrid retinal photocoagulation system using analog tracking," in *Proceedings of the 34th Annual Rocky Mountain Bioengineering Symposium*, Apr. 1997.
- [27] C. H. G. Wright, S. F. Barrett, R. D. Ferguson, H. G. Rylander III, and A. J. Welch, "Hybrid retinal photocoagulation system," in *Proceedings of the SPIE International Symposium on Biomedical Optics (SPIE 2971)*, pp. 106–117, Feb. 1997.
- [28] S. Barrett, C. Wright, E. Oberg, B. Rockwell, C. Cain, H. Rylander III, and A. Welch, "Automated hybrid retinal surgical system for laser photocoagulation," in *Proceedings of the Advanced Technology Applications to Combat Casualty Care (ATACCC '97)*, May 1997. Invited Paper.
- [29] S. F. Barrett, C. H. G. Wright, E. D. Oberg, B. A. Rockwell, C. P. Cain, H. G. Rylander III, and A. J. Welch, "Digital imaging-based retinal photocoagulation system," in *Proceedings of the SPIE International Symposium on Biomedical Optics (SPIE 2971)*, pp. 118–128, Feb. 1997.
- [30] S. F. Barrett, C. H. G. Wright, E. D. Oberg, B. A. Rockwell, C. P. Cain, H. G. Rylander III, and A. J. Welch, "Digital integrated retinal surgical laser system," *ISA Biomedical Sciences Instrumentation*, vol. 33, pp. 354–359, Apr. 1997.
- [31] E. D. Oberg, S. F. Barrett, and C. H. G. Wright, "Development of an integrated automated retinal surgical laser system," *ISA Biomedical Sciences Instrumentation*, vol. 33, pp. 77–81, Apr. 1997.
- [32] S. F. Barrett, C. H. G. Wright, E. D. Oberg, B. A. Rockwell, C. P. Cain, H. G. Rylander III, and A. J. Welch, "Digital integrated retinal surgical laser system," in *Proceedings of the 34th Annual Rocky Mountain Bioengineering Symposium*, Apr. 1997.
- [33] E. D. Oberg, S. F. Barrett, and C. H. G. Wright, "Development of an integrated automated retinal surgical laser system," in *Proceedings of the 34th Annual Rocky Mountain Bioengineering Symposium*, Apr. 1997.

- [34] C. H. G. Wright, J. K. Barton, D. E. Protsenko, H. G. Rylander III, and A. J. Welch, "Anomalous reflectance of laser-induced retinal lesions," *IEEE J. Special Topics Quant. Elect.*, vol. 2, pp. 1035–1040, Dec. 1996.
- [35] C. H. G. Wright, R. D. Ferguson, S. F. Barrett, H. G. Rylander III, and A. J. Welch, "Hybrid eye tracking for computer-aided retinal surgery," *ISA Biomedical Sciences Instrumentation*, vol. 32, pp. 225–235, Apr. 1996.
- [36] C. H. G. Wright, R. D. Ferguson, S. F. Barrett, H. G. Rylander III, and A. J. Welch, "Hybrid eye tracking for computer-aided retinal surgery," in *Proceedings of the 33rd Annual Rocky Mountain Bioengineering Symposium*, Apr. 1996.
- [37] C. H. G. Wright, "Tracking the moving retina: A hybrid digital/analog approach," in *Fourteenth Annual Houston Conference on Biomedical Engineering Research*, Houston Society for Engineering in Medicine and Biology, Feb. 1996.
- [38] R. D. Ferguson, C. H. G. Wright, S. F. Barrett, H. G. Rylander III, and A. J. Welch, "Hybrid tracking and control system for computer-aided retinal surgery," in *Proceedings of the SPIE International Symposium on Biomedical Optics (SPIE 2673)*, pp. 32–41, Feb. 1996.
- [39] S. F. Barrett, C. H. G. Wright, E. D. Oberg, R. D. Ferguson, B. A. Rockwell, C. P. Cain, H. G. Rylander III, and A. J. Welch, "Development of an integrated automated retinal surgical laser system," *ISA Biomedical Sciences Instrumentation*, vol. 32, pp. 215–224, Apr. 1996.
- [40] S. F. Barrett, C. H. G. Wright, M. R. Jerath, R. S. Lewis II, B. C. Dillard, H. G. Rylander III, and A. J. Welch, "Computer-aided retinal photocoagulation system," *SPIE J. Biomed. Opt.*, vol. 1, pp. 83–91, Jan. 1996.
- [41] S. F. Barrett, C. H. G. Wright, E. D. Oberg, R. D. Ferguson, B. A. Rockwell, C. P. Cain, H. G. Rylander III, and A. J. Welch, "Development of an integrated automated retinal surgical laser system," in *Proceedings of the 33rd Annual Rocky Mountain Bioengineering Symposium*, Apr. 1996.
- [42] S. F. Barrett, C. H. G. Wright, E. D. Oberg, B. A. Rockwell, C. P. Cain, M. R. Jerath, H. G. Rylander III, and A. J. Welch, "Integrated computer-aided retinal photocoagulation system," in *Proceedings of the SPIE International Symposium on Biomedical Optics (SPIE 2673)*, pp. 163–173, Feb. 1996.
- [43] S. F. Barrett, C. H. G. Wright, M. R. Jerath, R. S. Lewis II, B. C. Dillard, H. G. Rylander III, and A. J. Welch, "Automated retinal robotic laser system," *ISA Biomedical Sciences Instrumentation*, vol. 31, pp. 88–94, Apr. 1995.
- [44] S. F. Barrett, C. H. G. Wright, M. R. Jerath, R. S. Lewis II, B. C. Dillard, H. G. Rylander III, and A. J. Welch, "Automated retinal robotic laser system," in *Proceedings of the 32nd Annual Rocky Mountain Bioengineering Symposium*, Apr. 1995.
- [45] S. F. Barrett, C. H. G. Wright, M. R. Jerath, R. S. Lewis, B. C. Dillard, H. G. Rylander III, and A. J. Welch, "Automated retinal robotic laser system instrumentation," in *Proceedings of the SPIE International Symposium on Biomedical Optics (SPIE 2396)*, pp. 205–212, Feb. 1995. Invited paper.
- [46] S. F. Barrett, C. H. G. Wright, H. G. Rylander III, and A. J. Welch, "Automated placement of retinal laser lesions *in vivo*," in *Proceedings of the SPIE International Symposium on Lasers and Applications (SPIE 2374)*, pp. 293–301, Feb. 1995.
- [47] C. H. G. Wright, S. F. Barrett, M. R. Jerath, H. G. Rylander III, and A. J. Welch, "Retinal robotic laser system," in poster session at *1994 Gordon Conference on Lasers in Biology and Medicine*, July 1994.