

BIOGRAPHICAL SKETCH

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NAME Scott A. Prah, Ph.D.	POSITION TITLE Senior Research Scientist
eRA COMMONS USER NAME Scott.Prah	

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing and include postdoctoral training.)

INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Caltech, Pasadena	BS	1982	Applied Physics
University of Texas, Austin	PhD	1988	Biomedical Engineering
Academic Medical Center, Amsterdam	Postdoc	1989	Biomedical Optics
Harvard Medical School, Boston	Postdoc	1990	Biomedical Optics

A. Positions and Honors**Professional Positions**

1991 – 1993	Instructor	Harvard Medical School, Boston
1993 – Present	Senior Research Scientist	Oregon Medical Laser Center
1993 – Present	Assistant Professor	Oregon Graduate Institute
1993 – Present	Research Assistant Professor	Oregon Health & Science University

Other Professional Activities

1995 – 2001	Editorial Board	Lasers in Medicine and Surgery
1995 – Present	Physics Chairman	Oregon Academy of Science
2003 – 2007	Medical Imaging Technologies Study Section	NIH SBIR/STTR
2009 – Present	National Academy of Science	Ohio Biomedical Research
2009 – Present	External Advisory Board	Beckman Laser Institute

Honors

1991	Dermatology Foundation Award	Dermatology Foundation
2001 – 2002	Distinguished Teaching Award	Oregon Graduate Institute

B. Selected peer-reviewed publications

A. L. Dayton, S. A. Prah, "Optical Wire Guided Lumpectomy," *SPIE Proceedings on Optical Fibers and Sensors for Medical Diagnostics and Treatment Applications IX*, **7173**, (2009).

S. A. Prah, D. D. Duncan, D. G. Fischer, "Monte Carlo Propagation of Spatial Coherence," *SPIE Proceedings on Biomedical Applications of Light Scattering III*, **7187**, (2009).

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A. L. Dayton, S. A. Prah, "Turbid-polyurethane phantom for microscopy," *SPIE Proceedings on Design and Performance Validation of Phantoms Used in Conjunction with Optical Measurements of Tissue*, **6870**, (2008).

D. G. Fischer, S. A. Prah, D. D. Duncan, "Monte Carlo modeling of spatial coherence: free-space diffraction," *J. Opt. Soc. Am. A*, **25**, 2571-2581 (2008).

L. F. J. Schneider, C. S. C. Pfeifer, S. Consani, S. A. Prah, J. L. Ferracane, "Influence of photoinitiator type on the rate of polymerization, degree of conversion, hardness and yellowing of dental resin

composites," *Dental Materials*, **24**, 1169–1177 (2008).

Y. Chen, J. L. Ferracane, S. A. Prah, "Quantum Yield of Conversion of the Photoinitiator Camphorquinone," *Dental Materials*, 655-664 (2007).

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T. Moffitt, Y. Chen, S. A. Prah, "Preparation and characterization of polyurethane optical phantoms," *Journal of Biomedical Optics*, **11**, 041103 (2006).

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Y. Chen, J. L. Ferracane, S. A. Prah, "A Dynamic Monte Carlo Model for Predicting Radiant Exposure Distribution in Dental Composites: model development and verifications," *Lasers in Dentistry XI*, **5687**, 90–101 (2005).

Y. Chen, J. L. Ferracane, S. A. Prah, "A pilot study of a simple photon migration model for predicting depth of cure in dental composite," *Dental Materials*, **21**, 1075-1086 (2005).

Y. Chen, S. A. Prah, "Quantum Yield of Conversion of the Dental Photoinitiator Camphorquinone," *SPIE Saratov Fall Meeting 2004: Optical Technologies in Biophysics & Medicine VI*, **5771**, 256-266 (2005).

T. P. Moffitt, S. A. Prah, "Implementation of a Real-time Differential Pathlength Spectrometer System," *SPIE Saratov Fall Meeting 2004: Optical Technologies in Biophysics & Medicine VI*, **5771**, 267–275 (2005).

J. C. Ramella-Roman, S. A. Prah, S. L. Jacques, "Three Monte Carlo programs of polarized light transport into scattering media: part I," *Optics Express*, **13**, 4420–4438 (2005).

J. C. Ramella-Roman, S. A. Prah, S. L. Jacques, "Three Monte Carlo programs of polarized light transport into scattering media: part II," *Optics Express*, **13**, 10392–10405 (2005).

P. Wu, L. Lucchesi, J. Guo, S. A. Prah, K. Gregory, "Development of In Vitro Adhesion Test for Chitosan Bandages," *Society for Biomaterials 30th Annual Meeting Transactions*, (2005).

S. A. Carp, S. A. Prah, V. Venugopalan, "Radiative Transport in the δ -P₁ Approximation: Accuracy of Fluence Rate and Optical Penetration Depth Predictions in Turbid Semi-Infinite Media," *Journal of Biomedical Optics*, **9**, 632–647 (2004).

Y. Chen, J. J. Brazier, M. Yan, S. A. Prah, "Fluorescence-Based Optical Sensor Design for Molecularly Imprinted Polymers," *Sensors and Actuators B: Chemical*, **102**, 107–116 (2004).

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