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Professional Preparation:

1992 Ph.D. in Electrical Engineering, Princeton University, New Jersey
1989 M.A. in Electrical Engineering, Princeton University, New Jersey
1986 B.S. in Electrical Engineering and Materials Science, Cornell University, New York

Appointments:

1993 to present Associate Professor (1999 to present)
Assistant Professor (1993 to 1999)
Department of Physics and Astronomy
University of Oklahoma, Norman, Oklahoma

2000 to 2001 Invited Professor (while on sabbatical leave)
Quantum Solid State Physics Research Group
NTT Basic Research Laboratories, Atsugi, Japan

1992 to 1993 Postdoctoral Member of Technical Staff
Advanced Photonics Research Department
AT&T Bell Laboratories, Holmdel, New Jersey

Selected Publications (131 total from 1988 to present)

“Observation of spin-mediated subband Landau-level coupling in a two-dimensional electron gas,” X.H. Zhang, R.C. Meyer, T. Kasturiarachchi, N. Goel, R.E. Doezema, S.J. Chung, M.B. Santos, Y.J. Wang, submitted to *Physical Review B*.

“Spectroscopy of Rashba Spin Splitting in InSb Quantum Wells,” G.A. Khodaparast, R.E. Doezema, S.J. Chung, K.J. Goldammer, and M.B. Santos, submitted to *Review B*.

“Effect of Temperature on Ballistic Transport in InSb Quantum Wells,” N. Goel, K. Suzuki, S. Miyashita, S.J. Chung, M.B. Santos, and Y. Hirayama, *Physica* **E21**, 761 (2004).

“Spin Effects in InSb Quantum Wells,” G.A. Khodaparast, R.C. Meyer, X.H. Zhang, T. Kasturiarachchi, R. E. Doezema, S.J. Chung, N. Goel, and M. B. Santos, and Y.J. Wang, *Physica* **E20**, 386 (2004).

“Anisotropic Structural and Electronic Properties of InSb/Al_xIn_{1-x}Sb Quantum Wells Grown on GaAs (001) Substrates,” T.D. Mishima, J.C. Keay, N. Goel, M.A. Ball, S.J. Chung, M.B. Johnson, and M.B. Santos, *Journal of Crystal Growth* **251**, 551 (2003).

“Mobility anisotropy in InSb/AlInSb single quantum wells,” M.A. Ball, J.C. Keay, S.J. Chung, M.B. Santos, and M.B. Johnson, *Applied Physics Letters* **80**, 2138 (2002).

“Room Temperature Extraordinary Magnetoresistance of Non-Magnetic Narrow-Gap Semiconductor/Metal Composites: Application to Read-Head Sensors for Ultra High Density Magnetic Recording,” S.A. Solin, D.R. Hines, J.S. Tsai, Yu. A. Pashkin, S.J. Chung, N. Goel and M.B. Santos, *IEEE Transactions on Magnetics* **38**, 89 (2002).

“Electronic Characterization of InSb Quantum Wells,” S. J. Chung, N. Dai, G.A. Khodaparast, J. Hicks, K.J. Goldammer, F. Brown, W. K. Liu, R. E. Doezema, S. Q. Murphy, and M. B. Santos, *Physica* **E7**, 809 (2000).

“High-mobility electron systems in remotely-doped InSb quantum wells,” K.J. Goldammer, S.J. Chung, W.K. Liu, M.B. Santos, J.L. Hicks, S. Raymond, and S.Q. Murphy, *Journal of Crystal Growth* **201/202**, 753 (1999).

“Effect of substrate temperature on Si compensation in δ -doped InSb and $\text{Al}_x\text{In}_{1-x}\text{Sb}$ grown by molecular beam epitaxy,” W.K. Liu, K.J. Goldammer, and M.B. Santos, *Journal of Applied Physics* **84**, 205 (1998).

“MBE growth and characterization of $\text{Al}_x\text{In}_{1-x}\text{Sb}/\text{InSb}$ quantum wells”, W.K. Liu, Xuemei Zhang, Weiluan Ma, J. Winesett, and M.B. Santos, *Journal of Vacuum Science and Technology* **B14**, 2239 (1996).

Other current collaborators: Y. Hirayama, K. Suzuki, S. Miyashita (NTT Basic Research Laboratories); J.J. Heremans (Ohio University); S.A. Solin (Washington University, St. Louis); B. Gurney, S. Maat, E. Marinero (Hitachi Global Storage Technologies)

Former graduate students advised and postdoctoral scholars sponsored:
W.K. Liu, K.J. Goldammer, S.J. Chung, G.A. Khodaparast

Current graduate students advisees: 3, Current postdoctoral scholars sponsored: 1

Postdoctoral advisor: J.E. Cunningham (Bell Laboratories)
Graduate advisor: M. Shayegan (Princeton University)