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EDUCATION

1962 B.S. Allegheny College, Physics and Mathematics,
1968 Ph.D. Ohio University, Experimental Solid State Physics
(minor in Theoretical Physics)

PROFESSIONAL EXPERIENCE (33 years of service to UMaine)

1980-present Professor
1986-1992 Chairperson, Department of Physics and Astronomy
1986-1987 **Acting Director**, Laboratory for Surface Science and Technology,
University of Maine.
1979-1980 **Visiting Scientist**, IBM, T.J. Watson Laboratory,
Yorktown Heights, NY
1974-1980 Associate Professor
1968-1974 Assistant Professor
1992-1993 **Visiting Scientist**, Department of Materials Science, Oxford
University, England
1992-1993 **Visiting Scholar**, Wolfson College, Oxford University, England.
1989-1994 **Advisory Board**, College of Arts and Sciences, Ohio University.

SABBATICALS

1979-1980 I.B.M., T.J. Watson Laboratory, Yorktown Heights N.Y., materials
research
1992-1993 Department of Materials, Oxford University, materials research

PROFESSIONAL SOCIETIES

American Physical Society, American Association of Physics Teachers
Sigma Xi, Sigma Pi Sigma, Society of Automotive Engineers

HONORS AND AWARDS

1978 University of Maine Distinguished Professor
1978 University of Maine Commencement Speaker

PRINCIPAL PUBLICATIONS (1991-2001)

"Hysteresis of Synchronous-Asynchronous Regimes in a System of Two Coupled Oscillators", Maxim Poliashenko, Susan R. McKay and Charles W. Smith, Physical Review A 43 5638-5641 (1991).
"Chaos and Nonisochronism in Weakly Coupled Nonlinear Oscillators", Maxim Poliashenko, Susan R. McKay and Charles W. Smith, Physical Review A 44 3452-3456 (1991).
"Temperature Dependence of Point Contact Spectra for Ag:Nb and Ag:Nd_{1.85}Ce_{0.15}CuO_{4-δ} Heterocontacts", Charles W. Smith, Randal C. Reinertson and Paul J. Dolan, Jr., Fiz. Nizk. Temp. 18 563-564 (1992).

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PRINCIPAL PUBLICATIONS (cont.)

"A Comparison of the Zero Bias Differential Resistance of $\text{Ag:Nd}_{1.85}\text{Ce}_{0.15}\text{CuO}_{4-\delta}$ Point Contacts as a Function of Temperature below T_c ", R.C. Reinertson, C.W. Smith, and P.J. Dolan, Jr., *Physica C* 200 377-384 (1992).

"Data Analysis Strategies for the Characterization of Normal: Superconductor Point Contacts by Barrier Strength Parameter", *J. Appl. Phys.* 73(9) 4439-4443 (1993).

"Adsorption of trimethylgallium on Semiconductor Surfaces: STM Observations", A.J. Mayne, M.O. Schweitzer, A.R. Avery, T.S. Jones, C.W. Smith, C.M. Goringe, J.B. Pethica and G.A.D. Briggs, *Inst. Phys. Conf. Ser. No. 137, Section 10*, pages 605-608 (1994).

"Point Contact Spectra Between Two Different Superconductors as a Function of Temperature", P.J. Dolan, Jr., Randal C. Reinertson, and Charles W. Smith, *Physica B* 195 1685-1686 (1994).

"Individual Molecules on GaAs (110) - (2x1) and Si (001) - (2x1): Images, Statistics and Modelling", C.M. Goringe, A.R. Avery, A.J. Mayne, M.O. Schweitzer, W. Widdra, A.J. Fisher, T.S. Jones, G.A.D. Briggs, W.H. Weinberg and C.W. Smith, to be published in The Ultimate Limits of Fabrication and Measurement, a NATO Advanced Research Workshop Proceedings, edited by M.E. Welland, 1995.

"The Temperature Dependence of Subharmonic Gap Structures in Superconducting Heterocontacts of Nb, Pb, V and Ta", C.W. Smith, R.C. Reinertson and P.J. Dolan, Jr., *Physica B* 218, 119-121 (1996).

"Anomalous Temperature Dependence of the Andreev Peak for $\text{Ag/Nd}_{1.85}\text{Ce}_{0.15}\text{CuO}_{4-\delta}$ Point-Contacts", R. C. Reinertson, C. W. Smith and P. J. Dolan, Jr., *Physica B* 218, 202-204 (1996).

"Statistical Analysis of Adsorbates", A.J. Mayne, C.M. Goringe, C.W. Smith and G.A.D. Briggs, *Surface Sci.* 348, 209-225 (1996).

"Inelastic Scattering in Normal/Superconductor Point Contacts", C.W. Smith, R.C. Reinertson, E.V. Slobodzian and P.J. Dolan, *Czechoslovak J. Phys.* 46, 1327-1328, S3 (1996).

"The English George III Contemporary Counterfeit Halfpenny Series: A Statistical Study of Production and Distribution", in Coinage of the American Confederation Period, editor Philip L. Mossman, 23-53, The American Numismatic Society, New York, NY (1996).

"A Quantitative Classification System for Strike Errors", *The Colonial Newsletter* 103, 1646-1654 (1996).

"An Error Sampler: Analysis of Nine Coin Errors Using a Quantitative Classification System", *The Colonial Newsletter*, 104 1665-1668 (1997).

"Cast Counterfeit Coppers in the Pre-Federal America", with Philip L. Mossman, *The Colonial Newsletter* 107, 1775-1803 (1998).

"PIXE and RBS as a tool for the analysis of historic copper halfpennies", with M.H. Abraham, G.W. Grime and J.P. Northover, *Nucl. Instr. and Meth. in Physica B* 150, 651 (1999).

"Imported and Domestic Counterfeit Copper Coins in Pre-Federal America", with Philip L. Mossman, in *Circulating Counterfeits of the Americas*, editor, John M. Kleeberg, The American Numismatic Society, New York, NY (accepted and in press 2000).

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PRINCIPAL PUBLICATIONS (cont.)

"Quasiparticle Effects in Point Contacts of Niobium Containing Hydrogen". Charles W. Smith, Eugene V. Slobodzian and Paul J. Dolan, Jr., *Physica B*. 288, 567-568 (2000).

"Surface Tension vs. Buoyancy: Tokar's Question", Charles W. Smith and Paul J. Dolan, Jr., *The Physics Teacher* 39 69-70 (2001).

"Eighteenth Century English and Irish Halfpence", Charles W. Smith and Philip L. Mossman, book chapter, (to be published) Metallurgy in Numismatics (2002).

"Inelastic Quasiparticle Scattering in Normal Metal/Superconductor Point Contacts", E.V. Slobodzian, C.W. Smith, P.J. Dolan, Jr. *PHYSICA C* (to be published 2002).