

Anthony Joseph Duben

Curriculum Vitae

Office Address

Stephen F. Austin State University
Professor of Chemistry
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Education

Ph.D. in physical chemistry, Pennsylvania State University, 1970. Dissertation: "First-Order Density Matrices from Configuration Interaction Wavefunctions for H_3^+ " under the direction of Dr. John P. Lowe.

B.S. *summa cum laude* in chemistry, minor mathematics. Marquette University 1966

Employment History [in past 30 years]

Stephen F. Austin State University Nacogdoches TX

2005 – present Professor, Department of Chemistry and Biochemistry
2005 – 2010 Dean of the College of Sciences and Mathematics

Southeast Missouri State University Cape Girardeau MO

1999 – 2005 Chairman, Computer Science Department
1994 - 1999 Associate Dean, College of Science and Technology (now College of Science and Mathematics)
2006 Professor of Computer Science, Emeritus
1995 - 2005 Professor of Computer Science
1986 - 1995 Associate Professor of Computer Science
1983 - 1986 Assistant Professor of Computer Science

Washington University of St. Louis St. Louis MO

1992 - 1993 Visiting Associate Professor, Center for Molecular Design

Courses Taught

In Chemistry --

Undergraduate:

General Chemistry (for science and engineering students)
Introductory Chemistry (for general education)
Physical Chemistry
Chemistry for Nursing Students

Conceptual Chemistry (new for Fall 2014)

Graduate:

Thermodynamics
Quantum Chemistry
Heterogeneous Catalysis
Statistical Design of Experiments
Computational Chemistry

In Computer Science and Information Systems --

Undergraduate:

Computer Science I and II (using PL/1, Modula-2, Pascal, and C++ in different years)
Assembler (using IBM 360/370 mainframe and Intel x86 in different years)
Computer Organization
Data Structures
Programming Languages
Operating Systems
Computer Graphics
Computing for non-majors (service course, computer literacy oriented)
Information Systems I and II (spreadsheet, database software, Web development, descriptive material)
Bioinformatics
Decision Support Systems
Beginning and Advanced COBOL

Selected Publications in Chronological Order

Anthony J. Duben, Daniel T. Haworth "Enumeration of Isomers by Mathematical Formulas" *Science Teacher*, **33**, 66 (1966)

Anthony J. Duben "First-Order Density Matrices from Configuration Interaction Wavefunctions for H_3^+ " "Dissertation, Pennsylvania State University, 1970 [*Dissertation Abstracts*, vol. XXXII, No. 1, Order No. 71-16, 594 (1971)]

Anthony J. Duben, John P. Lowe "Correlation Studies on H_3^+ . I. The Wavefunctions" *Journal of Chemical Physics*, **55**, 4270 (1970)

Anthony J. Duben, John P. Lowe "Correlation Studies on H_3^+ . II. Electron Densities and Expectation Values" *Journal of Chemical Physics*, **55**, 4276 (1970)

Anthony J. Duben "Examination of the Semi-Classical Theory of Circular Dichroism" *International Journal of Quantum Chemistry*, **6**, 787 (1972)

Bruce R. Gilson, Anthony J. Duben "Program PROJ R (#218): Overlap Calculation Between Two N-Electron Antisymmetric Wavefunctions" *Quantum Chemistry Program Exchange*, **10**, 218 (1972)

Anthony J. Duben, Lionel Goodman, H. Onder Pamuk, Oktay Sinanoglu "Correlation Effects on the Neutral and Ionized Ground States of Acetylene" *Theoretica Chimica Acta*, **30**, 199 (1973)

Anthony J. Duben, Lionel Goodman, Motohiko Koyanagi "Interstate Interaction in Aromatic Aldehydes and Ketones" in *Excited States*, vol. 1, E.C. Lim, editor, Academic Press (1974), pp. 295 - 329

Anthony J. Duben "Hückel Theory Examination of the Hydrodesulfurization of Thiophene and the Monomethylthiophenes" *Journal of Physical Chemistry*, **82**, 348 (1978)

- C. Allen Bush, Anthony J. Duben "Circular Dichroism and the Conformation of Sugars Having Vicinal Diacylamino Substituents" *Journal of the American Chemical Society*, **100**, 4987 (1978)
- C. Allen Bush, Anthony J. Duben, Suresh Ralapati "Conformation of the Glycopeptide Linkage in Asparagine-Linked Glycoproteins" *Biochemistry*, **19**, 501 (1980)
- Anthony J. Duben, C. Allen Bush "Vacuum Ultraviolet Circular Dichroism Spectrometer and Its Application to N-Acetylamino Saccharides" *Analytical Chemistry*, **52**, 635 (1980)
- Anthony J. Duben "Hückel Theory Examination of the Hydrodenitrogenation of Pyridine" *Journal of Physical Chemistry*, **85**, 245 (1981)
- Anthony J. Duben "Necessary Conditions for the Calculation of Useful Electrostatic Isopotential Maps from CNDO/INDO Wavefunctions" *Theoretica Chimica Acta*, **59**, 81 (1981)
- C. Allen Bush, Suresh Ralapati, Anthony J. Duben "A Computer Controlled Vacuum Ultraviolet Circular Dichroism Apparatus with Fourier Digital Data Smoothing" *Analytical Chemistry*, **53**, 1140 (1981)
- Anthony J. Duben, Stanislav Miertuš "The Effect of Solvent on the Internal Rotation of Formamide: A CNDO/2 Solvaton Method Study" *Theoretica Chimica Acta*, **60**, 327 (1981)
- Anthony J. Duben "Simple Mathematical Model of the Surface Composition of the (100) Plane of γ -Alumina" *Proceedings of the South Dakota Academy of Sciences*, **60**, 156 (1981)
- Anthony J. Duben, Stanislav Miertuš "The Effect of Solvent on the Internal Rotation of Formamide: An *ab initio* Study Using a Cavity Model" *Chemical Physics Letters*, **88**, 395 (1982)
- Anthony J. Duben, C. Allen Bush "Monte Carlo Calculations of Preferred Conformations for 1,2-Diacetamido-Glucose and 1-Methoxy-2-Acetamido-Galactose" *Proceedings of the South Dakota Academy of Sciences*, **61**, 64 (1982)
- Anthony J. Duben, C. Allen Bush "Monte Carlo Calculations of Preferred Conformations for O- and N-Linked Glycopeptide Analogs of Glycoprotein Linkages" *Proceedings of the 1982 Summer Computer Simulation Conference*, pp. 449 - 452
- Anthony J. Duben "Long-Range Research Planning in Czechoslovakia" *Northern Social Science Review*, Spring 1983, pp. 53 - 59
- Anthony J. Duben "The Simulation of Catalytic Hydrocracking for Product Selectivity" *Proceedings of the 1983 Summer Computer Simulation Conference*, pp. 715 - 720
- Anthony J. Duben, C. Allen Bush "Monte Carlo Calculations on the Conformations of Models for the Glycopeptide Linkage of Glycoproteins" *Archives of Biochemistry and Biophysics*, **225**, 1 (1983)
- Anthony J. Duben, Stanislav Miertuš, Ondrej Kysel "The Modelling of Solvent Effects: An Evaluation of the Solvaton and Continuum Methods" *Proceedings of the South Dakota Academy of Sciences*, **62**, 100 (1983)
- Anthony J. Duben, Book Review of Quantum Chemistry by Donald A. McQuarrie, *Journal of the American Chemical Society*, **106**, 2485 (1984)
- Anthony J. Duben "Conformation Sampling Methods in the Study of Highly Branched Molecules" *Proceedings of the 1984 Summer Computer Simulation Conference*, pp. 548 - 551.

Anthony J. Duben "Computational Statistical Thermodynamics" *KIMAT-CHEMEX (KY-IL-MO-AR-TN) Chemistry News and Views Exchange*, Vol. 3, No. 2, Jan. 1985, pp. 16 - 20

Anthony J. Duben "The Writing of a Translator as a Software Engineering Project" *Technical Committee on Computer Education (IEEE Computer Society) Newsletter*, Spring 1985, pp. 8 - 9

Anthony J. Duben "Frontier Orbital Analysis of the Bathochromic Shift of Monosubstituted Benzenes" *Journal of Chemical Education*, **62**, 373 - 375 (1985)

Anthony J. Duben "Conformational Statistics of Oligosaccharides Found in Blood Group H Mucins" *Proceedings of the 1986 Summer Computer Simulation Conference*, pp. 193 -197

Anthony J. Duben "Torsional Potential Functions for Glycopeptide Conformational Statistics" *Proceedings of the 1987 Summer Computer Simulation Conference*, pp. 366 - 368

Wayne C. Summers, Hilton Chen, Anthony J. Duben "A Top-Down Approach to the Control Break Algorithm" *Proceedings of the Sixth Annual Information Systems Education Conference (1987)*, pp. 195 - 198

Anthony J. Duben "Polymer Chemistry of Carbohydrates" *Eastern Bloc Polymer Access Report*, Vol. 3, No. 10, November 1988, p. 2ff

Anthony J. Duben "Angle Averaging Procedures in the Conformational Analysis of Polymers" *Proceedings of the 1989 Summer Computer Simulation Conference*, pp. 310 - 314

Anthony J. Duben, William C. Hutton "The Evolution of Cross-Peak Intensity in the 2-D NMR Spectroscopy of Protons in Ellipsoids" *Proceedings of the 1990 Summer Computer Simulation Conference*, pp. 325 - 328

Anthony J. Duben, William C. Hutton "Homocuclear Proton Cross-Relaxation in the Presence of Paramagnetic Metal Ions" *Journal of Magnetic Resonance*, **88**, 60 - 71 (1990)

Anthony J. Duben, William C. Hutton "Spatial Aspects of Homocuclear, Proton NMR Cross-Relaxation 1. The Effects of Molecular Shape and Internal Motion" *Journal of the American Chemical Society*, **112**, 5917 - 5924 (1990)

Miloš Hricovini, Igor Tvaroška, Jan Hirsch, Anthony J. Duben "Nuclear Overhauser Effects and the Flexibility of Saccharides: Methyl β -Xylobioside" *Carbohydrate Research*, **210**, 13 - 20 (1991)

Anthony J. Duben "Development of an Environmental Monitoring System" *Proceedings of the 1991 Summer Computer Simulation Conference*, pp. 1146 - 1151

Anthony J. Duben, Book Review of Introduction to Statistical Pattern Recognition (2nd Ed) by Keinosuke Fukunaga, *Computing Reviews*, **32**, 563 - 564 (1991)

Anthony J. Duben, James Ricks "The Application of the Analytic Hierarchy Process in Sales Personnel Recruitment" *Developments in Marketing Science*, vol. XV, pp. 417 - 421 (1992)

Anthony J. Duben "Assignment of Nuclear Magnetic Resonance Parameters with a Super-Modified Simplex Optimization Method" *Proceedings of the 1992 Summer Computer Simulation Conference*, pp. 786 - 790 (1992)

Anthony J. Duben, Book Review of Linear Network Optimization: Algorithms and Codes by Dimitri P. Bertsekas, *Computing Reviews*, **33**, 596 - 597 (1992)

Anthony J. Duben, William C. Hutton "Rotating-Frame Proton Cross-Relaxation in the Presence of Paramagnetic Metal Ions" *Journal of Magnetic Resonance A*, **101**, 295 - 298 (1993)

Anthony J. Duben, Miloš Hricovini, Igor Tvaroška "The Conformational Analysis of Methyl b-Xylobioside: Effect of Choice of Potential Functions" *Carbohydrate Research*, **247**, 71 - 81 (1993)

Anthony J. Duben "Simulation of Nuclear Overhauser Effects in Non-Spherical Rigid Molecules -- Role of Spin Diffusion" *Proceedings of the 1993 Summer Computer Simulation Conference*, pp. 342 - 345 (1993)

Anthony J. Duben, Comparative Book Review of (1) Ross P. Nelson, Microsoft's 80386/80486 Programming Guide (2nd Ed.), (2) Alton R. Kindred, Structured Assembler Language for IBM Microcomputers, (3) Michael Thorne, Computer Organization and Assembly Language Programming for IBM Pcs and Compatibles (2nd Ed.), (4) William B. Giles, Assembly Language Programming for the Intel 80XXX Family in *Computing Reviews*, **34**, 455 - 458 (1993)

Anthony J. Duben, "The Effect of the Choice of Motional Model in the Determination of Molecular Conformation in Solution from NMR - NOESY Spectra: A Simulation Study", *Applied Computing 1994: Proceedings of the 1994 Symposium on Applied Computing*, pp. 561 - 565 (1994)

Anthony J. Duben, "The Effect of Motional Models on Rotating Frame Cross Relaxation", *Proceedings of the 1994 Summer Computer Simulation Conference*, pp. 728 - 733 (1994)

Anthony J. Duben, Book Review of Modelling Auditory Processing and Organisation by Martin Cooke in *Computing Reviews*, **35**, 521 - 522 (1994)

Anthony J. Duben, Review of paper "Variance Reduction Through Smoothing and Control Variates for Markov Chain Simulations" by Sigrun Andradottir, Daniel P. Heyman, and Teunis J. Ott [*ACM Trans. Model. Comput. Simul.*, **3**, 167 - 189 (1993)] in *Computing Reviews*, **35**, 589 - 590 (1994)

Anthony J. Duben "Conformational Statistics of Models of Serine- and Threonine-Linked Glycopeptides using Umbrella Sampling" *Applied Computing 1995: Proceedings of the 1995 Symposium on Applied Computing*, pp. 108 - 112

Anthony J. Duben, Book Review of Detection of Abrupt Changes: Theory and Application by Michel Basseville and Igor V. Nikiforov in *Computing Reviews*, **36**, 232 - 233 (1995)

Anthony J. Duben, Review of paper "Discrete-Event Simulation and the Event Horizon" by Jeff S. Steinman [*SIGSIM Simul. Dig.*, **24**, 39 - 49 (1994)] in *Computing Reviews*, **26**, 270 - 271 (1995)

Anthony J. Duben "One-Dimensional Nuclear Overhauser Effect Intensities in Many-Proton Spin Networks in Anisotropic Molecular Models", *Proceedings of the 1995 Summer Computer Simulation Conference*, pp. 745 - 750 (1995)

Anthony J. Duben "Conformational Statistics of the Nitrogen Linkage in Glycopeptides Using Umbrella Sampling" *Applied Computing 1996: Proceedings of the 1996 Symposium on Applied Computing*, pp. 38 - 43 also reprinted in the *ACM SIGBIO Newsletter*, **15**, 2 - 9 (1995)

Anthony J. Duben, Book Review of Simulation Fundamentals by B. S. Bennett in *Computing Reviews*, **37**, 111 - 112 (1996)

Anthony J. Duben, Review of Paper “When is the Assignment Bound Tight for the Asymmetric Traveling-Salesman Problem?” by Alan Frieze, Richard M. Karp, and Bruce Reed [*SIAM J. Comput.*, **24**, 484 - 493 (1995)] in *Computing Reviews*, **37**, 168 (1996)

Anthony J. Duben “The Interpretation of Nuclear Overhauser Intensities in a Somatostatin Analog Using Non-Spherical Motional Models” *Proceedings of the 1996 Summer Computer Simulation Conference*, pp. 427 - 431 (1996)

Anthony J. Duben, Book Review of Classical Algorithms in C++: with New Approaches to Sorting, Searching, and Selection by Nicholas Wilt in *Computing Reviews*, **37**, 394 - 395 (1996)

Anthony J. Duben, Book Review of Signal Processing with Fractals: A Wavelet-Based Approach by Gregory Wornell and Alan V. Oppenheim in *Computing Reviews*, **37**, 571 (1996)

Anthony J. Duben, Review of Paper “Combining Antithetic Variates and Control Variates in Simulation Experiments” by Wei-Ning Yang and Wei-Win Liou [*ACM Trans. Model. Comput. Simul.*, **6**, 243 - 260 (1996)] in *Computing Reviews*, **38**, 398 (1997)

Anthony J. Duben, Review of Paper “Adaptive Memory Management and Optimism Control in Time Warp”, by Samir R. Das and Richard M. Fujimoto [*ACM Trans. Model. Comput. Simul.*, **7**, 239 - 271 (1997)] in *Computing Reviews*, **38**, 463 (1997)

Anthony J. Duben, Review of Paper “Weighted Multi-Dimensional Search and its Application to Convex Optimization”, by Richa Agarwala and David Fernandez-Baca [*SIAM J. Comput.*, **25**, 83 - 99 (1996)] in *Computing Reviews*, **38**, 632 (1997)

Anthony J. Duben, Book Review of Explorations in Quantum Computing by Colin P. Williams and Scott H. Clearwater, in *Computing Reviews*, **39**, 291 (1998)

Anthony J. Duben, Book Review of Particle Modeling by Donald Greenspan in *Computing Reviews*, **39**, 306 - 307 (1998)

Anthony J. Duben, Review of Paper “An integrated model for evaluating the amount of data required for reliable recognition”, by Michael Lindenbaum [*IEEE Trans. Pattern Anal. Mach. Intell.*, **19**, 1251 - 1264 (1997)] in *Computing Reviews*, **39**, 382 (1998)

Anthony J. Duben, Review of Paper “Damage assessment for optimal rollback recovery”, by Tein-Hsiang Lin and Kang G. Shin [*IEEE Trans. Comput.*, **47**, 603 – 613 (1998)] in *Computing Reviews*, **39**, 424 (1998)

Robert Ponec and Anthony J. Duben “Electron Pairing and Chemical Bonds. Bonding in Hypervalent Molecules from the Analysis of the Fermi Holes”, *Journal of Computational Chemistry*, **20** (8), 760 – 771 (1999)

Anthony J. Duben, Book Review of Dynamic Spin Chemistry: Magnetic Controls and Spin Dynamics of Chemical Reactions by Saburo Nagakura, Hisaharu Hayashi, and Tohru Azumi (eds.), Kodansha, Ltd., Tokyo, and John Wiley, NY, (1998) in *Journal of Molecular Graphics and Modeling*, **16**, 270 (1998)

Anthony J. Duben, Review of Paper: “Self-adaptive software for signal processing: evolving systems in changing environments without growing pains” by Janos Sztipanovits, Gabor Karsal, and Ted Bapty [*Comm. ACM*, **41** (5), 66 - 73 (1998)] in *Computing Reviews*, **39** (10), 542 (1998)

Anthony J. Duben, Book Review of Stochastic Dynamic Programming and the Control of Queueing Systems by Linn Sennott, Wiley-Interscience, NY, 1999, in *Computing Reviews*, **40** (1), 65-66 (1999)

Anthony J. Duben, Review of Paper: “A multichannel approach to fingerprint classification” by Anil K. Jain, Salil Prabhakar, and LinHong, [*IEEE Trans. Pattern Anal. Mach. Intell.*, **21** (4), 348 - 359 (1999)] in *Computing Reviews*, **40** (7), 366 –367 (1999)

Anthony J. Duben, Review of Paper: “Integrating faces and fingerprints for personal identification” by Lin Hong and Anil Jain, [*IEEE Trans. Pattern Anal. Mach. Intell.*, **20** (12), 1295 - 1307 (1999)] in *Computing Reviews*, **40** (10), 494 (1999)

Anthony J. Duben, Book Review of Independent Component Analysis: Theory and Applications by Te-Won Lee, Kluwer Academic Publishers, Hingham MA, 1998, in *Computing Reviews*, **40** (11), 516 (1999)

Anthony J. Duben, Review of Paper: “Accelerating the convergence of random search methods for discrete stochastic optimization” by Sigrin Andradottir [*ACM Trans. Model. Comput. Simul.*, **9**(4), 349 – 380 (1999)] in *Computing Reviews*, **41** (9), 355 – 356 (2000)

Anthony J. Duben, Review of Paper: “Statistical pattern recognition: a review ” by Anil K. Jain, Robert P. Duin, and Jianchang Mao [*IEEE Trans. Pattern Anal. Mach. Intell.*, **22** (1), 4 -37 (2000)] in *Computing Reviews*, **41** (9), 359 (2000)

Anthony J. Duben, Review of Paper: “Optimizing static calendar queues” by K.B. Erickson, Richard E. Ladner, and Anthony Lamarca, [*ACM Trans. Model. Comput. Simul.*, **10**(3) 179 – 214 (2000)] in *Computing Reviews*, **42** (2), 103 (2001)

Anthony J. Duben, Book Review of Pattern Recognition in Soft Computing Paradigm by Nikhil Pal, World Scientific Publishing Co., River Edge NJ, 2001, in *Computing Reviews*, **43** (1), 11 (2002)

Anthony J. Duben, Book Review of Numerical Recipes in C++: The Art of Numerical Computing by W. Press, B. Flannery, W. Vetterling, S. Teukolsky, , Cambridge University Press, New York NY, 2002, in *Computing Reviews*, **43** (8), 249-250, (2002)

Anthony J. Duben, Review of Paper: “Speaker clustering for speech recognition using vocal tract parameters” by Masaki Naito, Li Deng, and Yoshinori Sagisaka [*Speech Communication*, **36** (3) 305 – 315 (2002)] in *Computing Reviews*, **44** (8), 476 (2003)

Anthony J. Duben, Review of Paper: “Mechanisms shaping fast excitatory postsynaptic currents in the central nervous system” by Mladen Glavinovic [*Neural Computation*, **14** (1), 1 – 19 (2002)] in *Computing Reviews*, **44** (9), 553 (2003)

Anthony J. Duben, Review of Paper: “Asymptotic profile of solutions of a singular diffusion equation as $t \rightarrow \infty$ ” by Shu Hsu, [*Non-Linear Analysis*, **48** (6), 781 – 790 (2002)] in *Computing Reviews*, **44** (10), 663 (2003)

Anthony J. Duben, Review of Paper: “The role of electronic preprints in chemical communication: analysis of citation, usage, and acceptance in the journal literature” by Cecilia Brown [*Journal of the American Society for Information Science and Technology*, **54** (5) 362-371 (2003)] in *Computing Reviews*, **44** (11), 730 – 731 (2003)

Ziping Liu, Ziqian Liu, Anthony J. Duben, David Naugler, “Considering spatial locality in *ad hoc* network multicasting”, *Proceedings of the 3rd IASTED International Conference Wireless and Optical Communications*, pp. 591 – 597, (2003)

Anthony J. Duben, Review of Paper: “Newsvendor bounds and heuristic for optimal policies in serial supply chains” by Kevin H. Shang and Jing Song, [*Management Science*, **49** (5), 618-638 (2003)] in *Computing Reviews*, **45** (1), 28 – 29 (2004)

Anthony J. Duben, Review of Paper: “Statistical error in particle simulations of hydrodynamic phenomena” by Nicolas G. Hadjiconstantinou, Alejandro L. Garcia, Martin Z. Bazant, and Gang He, [*Journal of Computational Physics*, **187** (1), 274 – 297 (2003)] in *Computing Reviews*, **45** (1), 31 – 32 (2004)

Anthony J. Duben, Book Review of Object oriented programming via Fortran 90/95 by Ed Akin, Cambridge University Press, New York NY, 2003 in *Computing Reviews*, **45** (6), 331 – 332 (2004)

Anthony J. Duben, “Curricula and Courses Bridging Informatics and Environmental Science”, *Environmental Informatics Archives*, **2**, 332-339 (2004)

Anthony J. Duben, Book Review of System Modeling and Optimization XX: IFIP TC7 20th Conference on System Modeling and Optimization, July 23 – 27, 2001, Trier, Germany (International Federation for Information Processing Series, 258), Kluwer, Norwell MA, 2003 in *Computing Reviews*, **45** (9) 524 (2004)

Anthony J. Duben, Review of Paper: “Exploratory analysis of fMRI data by fuzzy clustering” by Ray L. Somorjai and Mark Jarmasz [in Exploratory analysis and data modeling in functional neuroimaging, F. Sommer, A. Wichert, M. Spitzer (Eds.), MIT Press, Cambridge MA, 2003, pp. 17 – 48] in *Computing Reviews*, **45** (10), 651 – 652 (2004)

Anthony J. Duben, Book Review of Identification of Nonlinear Physiological Systems by David T. Westwick and Robert E. Kearney, Wiley—IEEE Computer Society Press, New York NY, 2003 in *Computing Reviews*, **45** (11), 699 – 700 (2004)

Anthony J. Duben, Review of Paper: “Assessing the likelihood of recurrence during RNA evolution in vitro” by Niles Lehman [*Artificial Life*, **10**(1), 1 – 22 (2004)] in *Computing Reviews*, **45** (12), 817 – 818 (2004)

Anthony J. Duben, David R Naugler, and Ken Surendran. “Agile Computing Curricula” *The Proceedings of ISECON 2004*, v 21 (Newport): §2134. ISSN: 1542-7382. (Electronic publication, Web accessible at <http://proc.isecon.org/2004/2134/index.html>) (later publication in *Information Systems Education Journal*, vol. 4 number 53 (2006) at <http://isedj.org/4/53/>)

Anthony J. Duben, Book Review of Knowledge Discovery in Multiple Databases by S. Zhang, C. Zhang, X. Wu, Spinger Verlag, 2004 in *Computing Reviews*, **46**(6), 374 (2005)

Anthony J. Duben, Book Review of Computational Chemistry using the PC (3rd. Ed.) by Donald Rogers, John Wiley & Sons, New York, 2003 in *Computing Reviews*, **46**(8), 503-504 (2005)

Anthony J. Duben, Book Review of Modelling in Molecular Biology by G. Ciobanu, G. Rozenberg, Springer Verlag, 2004 in *Computing Reviews*, **46**(12), 756 (2005)

Anthony J. Duben, Review of Book Chapter: “Multiple Cortical Representations of Optic Flow Processing” by M. Raffi, R. Siegel in Optic Flow and Beyond, L. Vaina, S. Beardsley, and S. Rushton (Eds.), Kluwer Academic Publ., Norwell MA, 2004, pp. 3-22, in *Computing Reviews*, **46**(12), 788 (2005)

Anthony J. Duben, Book Review of Statistical and Neural Classifiers: an Integrated Approach to Design by S. Raudys, Springer Verlag, 2001 in *Computing Reviews*, **47**(2), 95 (2006)

Anthony J. Duben, Review of Paper: “Methodological support for service-oriented design with ISDL” by D. Quartel, R. Dijkman, M. van Sinderen [in Service Oriented Computing (Proceedings of the 2nd International Conference on Service Oriented Computing), New York, Nov 15-19, 2004, pp. 1-10] in *Computing Reviews*, **47**(2), 103 (2006)

Anthony J. Duben, Review of Paper: “Approximate XML Document Matching” by E. Canfield and Guangming Xing [in Applied Computing (Proceedings of the 2005 ACM Symposium on Applied Computing), Santa Fe NM, March 13, 2005, pp. 787-788] in *Computing Reviews*, **47**(8), 499 (2006)

Anthony J. Duben, Review of Book: Geometry and Meaning by Dominic Widdows, Center for the Study of Language and Information / SRI, Stanford CA, 2004 in *Computing Reviews*, **47**(9) 528-529 (2006)

Anthony J. Duben, Review of Paper: “A sharpness dependent filter for mesh smoothing” by Chun Chen and Kuo Cheng [in Computer Aided Geometric Design, **22**(5), 376-391 (2005)] in *Computing Reviews*, **47**(9), 571 (2006)

Anthony J. Duben, Review of Paper: “Online SOS-based multichannel blind equalization algorithm with noise” by Xizhong Shen and Xizhi Shi [in Signal Processing, **85**(8), 1602 - 1610 (2005)] in *Computing Reviews*, **48**(2), 124 - 125 (2007)

Anthony J. Duben, Review of Book: Continuous System Simulation by Francois E. Cellier and Ernesto Kofman, , Springer Verlag New York, 2006 in *Computing Reviews*, **48**(9), 537 (2007)

Anthony J. Duben, Review of Paper: “Subthreshold-seeking local search” by Darrell Whitley and Jonathan Rowe [in Theoretical Computer Science, **361** (1), 2 – 17 (2006)] in *Computing Reviews*, **48** (12), 754 – 755 (2007)

Anthony J. Duben, Review of Paper: “Uncoverings-by-base for base transitive permutation groups” by Robert F. Bailey [in Designs, Codes and Cryptography, **41** (2), 153 – 176 (2006)] in *Computing Reviews*, **49** (1), 54 (2008)

Anthony J. Duben, Review of Book: COLLADA: sailing the gulf of 3D digital content creation by Remi Arnaud and Mark C. Barnes, A.K. Peters Ltd., Wellesly MA, 2006 in *Computing Reviews*, **49** (3), 164 (2008)

Anthony J. Duben, Review of Book: Quantum Computing Devices (Applied Mathematics and Nonlinear Science Series) by Goong Chen, David A. Church, Berthold Englert, Carsten Henkel, Bernd Rohwedder, Marlan O. Scully, and M. Zubairy, Chapman and Hall / CRC, Danvers MA, 2006 in *Computing Reviews*, **49** (5), 259 (2008)

Anthony J. Duben, Review of Book: The Game Maker’s Apprentice: game development for beginners by Jacob Habgood and Mark Overmars, Apress, Berkeley CA, 2006 in *Computing Reviews*, **49** (5) 279 – 280 (2008)

Anthony J. Duben, Review of Paper: “Conformal geometric algebra for robotic vision” by Eduardo Bayro-Carrochano, Leo Reyes-Lozano, Julio Zamora-Esquivel [in Journal of Mathematical Imaging and Vision, **24** (1) 55 – 81 (2006)] in *Computing Reviews*, **49** (6), 381 (2008)

Anthony J. Duben, Review of Book: Vector analysis for computer graphics by John Vince, Springer-Verlag New York, Secaucus NJ, 2007 in *Computing Reviews*, **49** (8) 479- 480 (2008)

Anthony J. Duben, Review of Book: Mastering integrated HTML and CSS by Virginia Debolt, SYBEX Inc., Alameda CA, 2007 in *Computing Reviews*, **49** (9), 546 – 547 (2008)

Anthony J. Duben, Review of Book: Research and advanced technology for digital libraries: 10th European Conference, EDCL 2006, Alicante Spain, September 17 – 22, 2006, Proceedings (Lecture Notes in Computer Science 4172) by Julio Gonzalo, Constantino Thanos, M. Verdejo, and Rafael C. Carrasco (Eds.) Springer-Verlag New York, Secaucus NJ, 2006 in *Computing Reviews*, **49** (10), 600 – 601 (2008)

Anthony J. Duben, Review of Paper: “The freeze-tag problem: how to wake up a swarm of robots” by Esther M Arkin, Michael A. Bender, Sandor P. Fekete, Joseph S. Mitchell, and Martin Skutella [in *Algorithmica*, **46** (2), 193 – 221 (2006)] in *Computing Reviews*, **49** (10), 634 (2008)

Anthony J. Duben, Review of Paper: “Simulation of the paraxial laser propagation coupled with hydrodynamics in 3D geometry” by Ph. Ballereau, M. Casanova, F. Duboc, D. Dureau, H. Jourden, P. Loiseau, J. Metral, O. Morice, and R. Sentis [in *Journal of Scientific Computing*, **33** (1) 1 – 24 (2007)] in *Computing Reviews*, **49** (11), 700 (2008)

Anthony J. Duben, Review of Paper: “Industry case studies in the use of immersive virtual assembly” by Sarkar Jayaram, Uma Jayaram, Young Jun Kim, Charles Dechenne, Kevin W. Lyons, Craig Palmer, and Tatsuki Mitsui [in *Virtual Reality*, **11** (4), 217-228 (2007)] in *Computing Reviews*, **50** (1), 56 (2009)

Anthony J. Duben, Review of Paper: “Does topic metadata help with Web search?” by David Hawking and Justin Zobel [in *Journal of the American Society for Information Science and Technology*, **58** (5), 613-628 (2007)] in *Computing Reviews*, **50** (2), 122 (2009)

Anthony J. Duben, Review of Paper: “Phase transitions and bistability in honey bee foraging dynamics” [in *Artificial Life*, **14** (1), 111-120 (2008)] in *Computing Reviews*, **50** (4), 252 (2009)

Anthony J. Duben, Review of Book: Ontology Matching by Jerome Euzenat and Paul Shvaiko, Springer Verlag New York, 2007 in *Computing Reviews*, **50** (5), 287 (2009)

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Anthony J. Duben, Review of Paper: “Long-term variations in the aging of scientific literature: from exponential growth to steady-state science (1900-2004)” by Vincent Lariviere, Eric Archambault, and Yves Gingras [in *Journal of the American Society for Information Science and Technology*, **59** (2) 288-298 (2008)] in *Computing Reviews*, **50** (6), 379-380 (2009)

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Anthony J. Duben, Review of Book: “NumPy beginner’s guide (2nd ed.)” by Ivan Idris, Packt Publishing, Birmingham UK, 2013 in *Computing Reviews*, **55**(7), 397-398 (2014)

Anthony J. Duben, Review of Book: “Beginning Windows 8.1” by Mike Halsey, Apress, Berkeley CA, 2013 in *Computing Reviews*, **55**(8), 467-468, (2014)

Software Developed under Research Contracts

Anthony J. Duben, M. Kathleen Patton, Ngoui Kwan Su, Koh Hwee Khim, Michael S. Zimmer “Environmental Monitoring System: Version 1.0” (1988) Supported by research contract from Monsanto

Anthony J. Duben and Russell Hampelman “DECON: A Program for Curve Deconvolution and Numerical Integral Evaluation” (1990) Supported by research contract from Monsanto

Anthony J. Duben “SPINFIT and SPINSYS: Programs for the Simulation of 1-D NMR Spectra” (1991) Supported by research contract from Monsanto

Papers Presented at Meetings

Anthony J. Duben, John P. Lowe “Correlation Studies on H₃⁺: Wavefunctions, Electron Densities, and Expectation Values” Sixth Middle Atlantic Regional Meeting of the American Chemical Society, Baltimore MD, February 1971

Anthony J. Duben “Problems in Catalysis”, Sigma Xi -- Rapid City Chapter Meeting, March 1980, Rapid City SD.

C. Allen Bush, Anthony J. Duben “A Computer Controlled Vacuum Ultraviolet Circular Dichroism Spectrometer” Joint meeting of the American Society of Biophysical Chemistry / Biophysical Society, New Orleans LA, June 1980

Anthony J. Duben “Long Range Research Planning in Czechoslovakia -- The Development of the 1980 -1985 State Plan”, Sigma Xi , Rapid City SD, October 1980

Anthony J. Duben, C. Allen Bush “Monte Carlo Energy Calculations on Glycosylated Peptides as Conformational Models for Glycoproteins” Biophysical Society Meeting, Boston MA, February 1982

Anthony J. Duben “Umbrella Sampling and the Conformational Statistics of Models of N- and O-Linked Glycopeptides” 20th Midwest Regional Meeting of the American Chemical Society, Carbondale IL, November 1985

Anthony J. Duben, William C. Hutton “Spatial Aspects of Homonuclear, Proton NMR Cross-Relaxation: The Effects of Molecular Shape and Internal Motion” 31st Experimental Nuclear Magnetic Resonance Spectroscopy Conference, Asilomar CA, April 1990

Anthony J. Duben “The Calculation of the Effects of Proton Cross-Relaxation in NMR Spectra Using Spreadsheets” 1991 Missouri Academy of Science Meeting, Westminster College, Fulton MO, April 1991

Anthony J. Duben “Methods of Averaging Re-Entrant Properties and Interpretation of NMR Spectra”, Annual St. Petersburg Meeting on Physics, sponsored by the Russian Academy of Science, St. Petersburg RUSSIA, March 1992

Anthony J. Duben “Scientific Computing in Russia”, 1992 Missouri Academy of Science Meeting, Univ. of Missouri -- Rolla, April 1992

D. D. Beusen, R. D. Head, W. C. Hutton, A. J. Duben, E. F. Berkely Shands, S. F. Karasek, R. A. Dammkoehler “Systematic Conformational Search in the Generation of Three-Dimensional Structures from NMR Data” 28th ACS Midwest Regional Meeting, Columbia MO, November 1993

Anthony J. Duben “The Effects of Anisotropic Motional Models in Determining the Conformation of Polypeptides from Solution NMR-NOESY Spectra” Missouri Academy of Science Meeting, Cape Girardeau MO, April 1994

Anthony J. Duben “CML – Chemical Markup Language” Southern Illinois Section of the American Chemical Society, Carbondale IL, November 2003

Anthony J. Duben, “Curricula and Courses Bridging Informatics and Environmental Science”, 2004 International Conference on Environmental Informatics, Regina SASK Canada, August 2004

Anthony J. Duben, Ken Surendran, David R. Naugler , “Agile Computing Curricula”, ISECON (Information Systems Education Conference), Newport RI, November 2004

Anthony J. Duben, “Formal Articulation in Mathematics”, SFASU College of Sciences and Mathematics Articulation Conference, Nacogdoches TX, February 2007

Anthony J. Duben, “B.S. in Engineering Science: A Sketch”, Texas Society of Professional Engineers, Pineywoods Chapter, Nacogdoches TX, April 2008

Anthony J. Duben, “Articulation Models for Science and Mathematics”, SFASU College of Sciences and Mathematics Articulation Conference, Nacogdoches TX, April 2008

A. J. Duben, B. Danilowicz, S. Brown, P. Mosto, V. Golich, “Support for the Sciences in Regional Comprehensive Universities”, CCAS (Council of Colleges of Arts and Sciences) Annual Meeting, Portland OR, November 2008

Rachel Lindsey, Jerry Bryant, Anthony J. Duben, Jonathan Yavelow, Holly Downing, “Pipeline Issues in the STEM Disciplines”, CCAS (Council of Colleges of Arts and Sciences) Annual Meeting, Baltimore MD, November 2009

Anthony J. Duben, "Articulation Issues", SFASU College of Sciences and Mathematics Articulation Conference, Nacogdoches TX, November 2009.

Anthony J. Duben, "Chemical Genealogy: the Princeton to Paris Connection", East Texas Section of the American Chemical Society, LeTourneau University, Longview, TX, September 12, 2011

Seminars Presented

Anthony J. Duben "Circular Dichroism of Vicinal Diacyl Amino Carbohydrates and Conformational Implications" Polymer Institute of the Slovak Academy of Sciences, Bratislava CZECHOSLOVAKIA, June 1980

Anthony J. Duben "Quantum Chemical Description of the Hydrotreating of Thiophenes and Pyridines" Polymer Institute of the Slovak Academy of Sciences, Bratislava CZECHOSLOVAKIA, July 1980

Anthony J. Duben "Experimental and Theoretical Studies of Glycopeptide Conformations" Graduate Faculty Seminar, Department of Biochemistry, School of Medicine, University of New Mexico, Albuquerque NM, March 1983

Anthony J. Duben "A Case Study in Computer Simulation: Selective Hydrocracking" Grinnell College, Grinnell IA, April 1983

Anthony J. Duben "Conformational Statistics and the Prediction of Nuclear Overhauser Effects" Institute of Chemical Process Fundamentals, Czechoslovak Academy of Sciences, Prague CZECHOSLOVAKIA, June 1988

Honors

Best Review of 2013 in Simulation and Modelling in *Computing Reviews* for review of "Ontology, epistemology, and teleology: philosophical foundations for intelligent M&S applications" by Andreas Tolk (ed.)" April 2014 [originally published in Web version of *Computing Reviews* in 2013]

Best Review of 2012 in Simulation and Modelling in *Computing Reviews* for review of "On the mathematics of modeling, metamodelling, ontologies, and modelling languages" by Brian Henderson-Sellers" April 2013 [originally published in Web version of *Computing Reviews* in 2012]

National Academy of Sciences Exchange Scientist (with the Czechoslovak Academy of Sciences) Summer 1980, 1988

National Science Foundation Small College Faculty Awardee (with Dr. C. Allen Bush, Illinois Institute of Technology) 1981

National Science Foundation Pre-Doctoral Fellow 1966 - 1970

International Association of Machinists Scholar 1962 - 1966

Professional Memberships

Association for Computing Machinery

Institute of Electrical and Electronics Engineers – Computer Society

American Chemical Society

American Physical Society

Society for Industrial and Applied Mathematics

American Association for the Advancement of Science

Professional Service

Chairman, East Texas Section of the American Chemical Society: 2014. Chair-Elect, 2013.

Chairman, Southern Illinois Section of the American Chemical Society: 1998 – 2001 Chair-Elect, Chair, Past Chair; 2003 – 2005 Chair-Elect, Chair.

Program Accreditation Evaluator, ABET-Computing Accreditation Commission, 2003 – present;
Commissioner, Computing Accreditation Commission, 2012 – present.

Chairman, Committee on Comprehensive Universities, Council of Colleges of Arts and Sciences (CCAS), 2007 – 2008. Member of Committee 2005 – 2010.

Vice-President of Texas Association of Deans of Liberal Arts and Sciences (TADLAS), 2009 – 2010;
member of Board 2008 – 2010.

Member of the Steering Committee for the STEPS (Systematic Texas Educator Preparation Sites) Grant funded by the Texas Higher Education Coordinating Board, 2010 – 2011.

Reviewer of manuscripts for the Journal of Chemical Education, 2012 – present.

Anthony Joseph. Pro. Final Fantasy + Warhammer. Anthony Joseph. Pro. Seraphon Skink Concept: Inspired by Total Warhammer. Anthony Joseph. Pro. The Crusader. Anthony Joseph. Pro. Theyâ€™re Coming. Anthony Joseph. Pro. Scarecrow. Anthony Joseph. Pro. Tin Man. Anthony Joseph. Pro. Crash Landing. Anthony Joseph. Pro. Victory Mansion Corridor. Anthony Joseph. Pro. Winston's Apartment. Anthony Joseph. Pro. Fallen Mech. Anthony Joseph. Pro. Japanese Home. Anthony Joseph. 5.9K likes. Buy the new album 'People of the sun' now CD and LP : <https://bit.ly/2DYAJ6c> Digital/ streaming. The official facebook page for Anthony Joseph. See more. CommunitySee all. 5,981 people like this. 6,144 people follow this. AboutSee all. Contact Anthony Joseph on Messenger. www.anthonjoseph.co.uk. Musician/band. Track. Buddah feat. Anthony Joseph. Dub. \$1.29.