

CURRICULUM VITAE

Richard Alan DiDio

Contact Information

Dept. of Mathematics and Computer Science
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Education

Ph.D., Materials Science and Engineering, University of Pennsylvania, Philadelphia, PA,
March 1983

*Thesis: "An Ultraviolet Photoemission Study of the Bonding and Electronic Structure of
Ordered Sulfur Overlayers on Iron Single-Crystal Surfaces"*

B.A., Physics, La Salle College, Philadelphia, PA, May 1976

Positions Held

- 8/01 - Associate Professor, Integrated Science, Business, and Technology Program,
La Salle University
- 8/01 – 12/04 Adjunct Instructor of Mathematics, Tyler School of Art, Temple University,
Elkins Park, PA
- 8/01 - 6/02 Special Projects Coordinator, School of Arts and Sciences, La Salle University
- 7/97 - 8/01 Associate Dean of Arts & Sciences, La Salle University
- 7/94 - 7/97 Chair, Mathematics & Computer Science Dept., La Salle University
- 9/92 - Associate Professor, Mathematics & Computer Science Dept., La Salle
University
- 9/87 - 8/92 Assistant Professor, Mathematical Sciences Department, La Salle University
- 9/86 - 7/87 Instructor, Physics Department, Community College of Philadelphia,
Philadelphia, PA
- 1/85 - 8/86 Staff Scientist, Solid State Division, Oak Ridge National Laboratory, Oak
Ridge, TN
- 3/83 - 1/85 Post Doctoral Research Associate, Physics Department, University of
Pennsylvania
- 9/77 - 3/83 Graduate Student/Research Assistant, Department of Materials Science and
Engineering, University of Pennsylvania
- 1/79 - 5/81 Instructor, Physics Department, La Salle College
- 6/75 - 8/77 Electronic Engineer, Radar Division, U.S. Naval Air Development Center,
Warminster, PA
- 9/74 - 5/75 Physics Instructor, Ancilla Domini High School, Philadelphia, PA

Areas of Interest

Mathematics & Physics Pedagogy
 Differential Equations/Non-linear Dynamics
 Core Curricula and Interdisciplinary Studies
 Condensed Matter Physics: Adsorbate-Metal Interactions
 History and Philosophy of Science & Mathematics

Professional Organizations

American Physical Society

Courses Taught

Mathematics: Myths and Realities (Liberal Arts Core Mathematics)
 Elements of Mathematical Thought (Temple Univ. Liberal Arts Core Mathematics)
 Finite Mathematics
 Mathematical Technology
 Algebra and Trigonometry
 Business Calculus
 Calculus and Analytic Geometry 1, 2, & 3
 Linear Algebra
 Differential Equations
 Mathematical Economics
 General Physics 1 & 2 (Calculus-based)
 States, Waves, and Photons (optics)
 Electronics 1
 Quantum Mechanics 1 & 2
 Chaos & Fractals
 Introduction to Computing Using Packages
 Introduction to Computing: Mathematics & Science Applications
 Technology and Systems Analysis Laboratory

Peer-reviewed Publications

1. "Phosphorus Interdiffusivity in alpha-Fe Binary and Alloy Systems," G. Luckman, R.A. DiDio, and W.R. Graham, *Met. Trans. A* 12A, 253 (1981).
2. "Momentum Dependent Line Shapes in Photoemission," R.A. DiDio, E.W. Plummer, and W.R. Graham, *Phys. Rev. Lett.* 52, 683 (1984).
3. "An Angle-Resolved UPS Study of the Oxygen-Induced Reconstruction of Cu(110)," R.A. DiDio, D.M. Zehner, and E.W. Plummer, *J. Vac. Sci. Technol. A* 2, 852 (1984).
4. "The Electronic Structure of c(2x2)S/Fe(100): S 3p-level Dispersions and Linewidths," R.A. DiDio, E.W. Plummer, and W.R. Graham, *J. Vac. Sci. Technol. A* 2, 983 (1984).
5. "Dynamics of Adsorbate Core-Hole Decay," C.T. Chen, R.A. DiDio, W.K. Ford, E.W. Plummer, and W. Eberhardt, *Phys. Rev. B* 32, 8434 (1985).

6. “Summary Abstract: A Photoemission Study of TaC(001),” R.A. DiDio, D.M. Zehner, S.-C.Lui, and E.W. Plummer, *J. Vac. Sci. Technol. A* 4(3), 1408 (1986).
7. “Oxygen Chemisorption on Copper (110),” J.M. Mundenar, A.P. Baddorf, E.W. Plummer, L.G. Sneddon, R.A. DiDio, and D.M. Zehner, *Surf. Sci.* 188, 15 (1987).
8. “(1x1) Rippled Relaxation of (100) Transition-Metal Carbide Surfaces,” G.R. Gruzalski, D.M. Zehner, J.R. Noonan, H.L. Davis, R.A. DiDio, and K. Muller, *J. Vac. Sci. Technol. A* 7(3), 2054 (1989).

Grants & Grant-Related Activities

1. HUD grant (\$2M), 1990 for the creation of the Institute for the Advancement of Mathematics and Science Teaching, La Salle University (Co-author)
2. NSF Dynamical Systems Summer Programs, Regional Institute in Dynamical Systems, Boston University. Conference attendance grants for:
 - a. “Introductory Chaos Theory, Complex Dynamics, and Circle Maps,” 1990
 - b. “Chaos and Catastrophes, and Fractal Geometry,” 1991
 - c. “Dynamics, Competition, and Neural Networks,” 1992
3. Eisenhower grant, 1993, \$187K (Co-investigator with J. Schiller of Temple University) - an 18-month grant to assist K-12 teachers of math/science from the Philadelphia School District in establishing a Math/Science “Teacher Leadership Congress”
4. NSF/CHANCE Workshop, Dartmouth University, Conference attendance grant, June, 1997
5. NSF Grant, 1999, \$149.5K: Project Director for the Systemic Elementary Mathematics Team-Tutoring Initiative (SEMTTI)
6. Disciplinary Faculty Member in the Math Science Partnership of Greater Philadelphia (MSPGP). This 5-year, \$12.5M NSF-grant focuses on “improving secondary mathematics and science, grades 6-12, in an ‘open-loop’ environment typical of sprawling, densely-populated greater metropolitan areas containing hundreds of school districts and dozens of institutions of higher education.” (1/4-time position funded by this grant since September 2004)

Curriculum Development Activities

Internal Curriculum Development

As chair of MTH/CSC and Associate Dean of Arts & Science, I coordinated or co-coordinated the creation and curricular approval of the following interdisciplinary programs:

1. Digital Arts and Multimedia Technology (DART); Computer Science, English, Communication, Fine Arts, & Psychology Depts.; 1997-98
2. Integrated Science, Business, and Technology (ISBT); MTH/CSC, Geology and Physics, Environmental Science, Chemistry/Bio-Chemistry, Biology Depts. & Business School; 1998-2000
3. American Studies; Education, English, History, Political Science Depts.; 2000.

External Curriculum Development

4. "Broadening Curricula: Faculty Dialogue Across Two and Four Year Colleges and Universities," Community College of Philadelphia/Ford Foundation Project, 1989-1991. Related activities:
 - Co-presenter of "Mathematical Literacy: Can we Find a Basis Set," and "Alternative Course Models for Non-MTH Majors," CCP/Ford Dissemination Meeting, CCP, April 20-21, 1990, (w/ W. Nathan, Assoc. Provost of Temple, and J. Mason, CCP Math Department chair)
 - Co-presenter of a seminar on CCP/Ford findings to the Board of Regents of the Illinois Regency University System, Chicago, April 1991. (w W. Nathan and B. Grossbach of CCP)
5. "Business/Academic Partnership for the Information Technology Workforce." Organized by Greater Philadelphia First (GPF) in order to attract, train, and retain students in information tech-related majors for the region. Related activities:
 - Original member of the Core Competencies Team that developed the white paper "What Do today's Information Technology Graduates Need to Know to Meet the Needs of Knowledge-Based Companies?" (1999)
 - Led the La Salle University effort in forming a GPF-brokered partnership with Unisys, SCT, and Independence Blue Cross, 2000 - 2001
 - Represented all area Universities engaged in GPF partnerships (Villanova, Temple, West Chester) at the press briefing announcing the finalization of partnership agreements, April 2001
 - Panelist on "Preparing Students for the IT World of the Public and Private Sector," a roundtable discussion hosted by e-Philadelphia Technology and WHY Y, March 27, 2002. Panelists included the CIO's of Rohm and Haas, Thomas Jefferson University and SEPTA, Prof. F. Friedman, Chair of Temple's Computer and Information Sciences Dept., and Dean D. Fenske of Drexel's College of Information Science & Technology.

Conference/Workshop Presentations

1. "Phosphorus Solubility in NiCr and CrMo Steels From an AES Study of Free Surface Segregation," R.A. DiDio, G. Luckman, and W.R. Graham, 109th AIME Annual Meeting, Las Vegas, NV 1980.
2. "An Angle-Resolved Photoemission Study of c(2x2)S/Fe(100)," R.A. DiDio, and E.W. Plummer, 14th Annual Synchrotron Users Group Conference, Stoughton, WI, October 1981.
3. "Electronic Properties of S Segregated to Single Crystal Surfaces of Ni and Fe" (invited paper), R.A. DiDio and E.W. Plummer, 183rd National Meeting of the American Chemical Society, Las Vegas, NV, March 1982.
4. "S/Fe(100) vs. S/Ni(100): Bonding Differences Determined by ARUPS," R.A. DiDio and E.W. Plummer, 43rd Annual Conference on Physical Electronics, Albuquerque, NM, June 1983.
5. "The Electronic Structure of Ordered Oxygen Overlayers on Cu(110)," D.M. Zehner, R.A. DiDio, and E.W. Plummer, 30th National Symposium of the American Vacuum Society, Boston, MA, November 1983.

6. "The Electronic Structure of $c(2 \times 2)S/Fe(100)$: S 3p-level Dispersions and Linewidths," R.A. DiDio, E.W. Plummer, and W.R. Graham, 30th National Symposium of the American Vacuum Society, Boston, MA, November 1983.
7. "Oxygen on Cu(110): Molecular Pre-Cursor to Dissociative Adsorption," R.A. DiDio, D.M. Zehner, and E.W. Plummer, 44th Annual Conference on Physical Electronics, Princeton, NJ, June 1984.
8. "The Pathway to Dissociation of Oxygen on Cu(100) and Cu(110)," R.A. DiDio, D. Heskett, J.M. Mundenar, E.W. Plummer, and D.M. Zehner, 31st National Symposium of the American Vacuum Society, Reno, NV, December 1984.
9. "A Study of the (110) and (111) Faces of the Ordered Alloy NiAl," R. Gaylord, S.-C. Lui, J.M. Mundenar, E.W. Plummer, R.A. DiDio, and D.M. Zehner, 18th Annual Synchrotron Users Group Conference, Stoughton, WI, November 1985.
10. "Surface State Dispersions on Ta(001)," R. A. DiDio, D.M. Zehner, S.-C. Lui, and E.W. Plummer, 18th Annual Synchrotron Users Group Conference, Stoughton, WI, November 1985.
11. "A Photoemission Comparison of Ta(001) and TaC(001): Core and Valence Studies," R. A. DiDio, D.M. Zehner, S.-C. Lui, E.W. Plummer, and W. Eberhardt, 18th Annual Synchrotron Users Group Conference, Stoughton, WI, November 1985.
12. "A Photoemission Study of TaC(001)," R.A. DiDio, D.M. Zehner, S.-C. Lui, and E.W. Plummer, 32nd National Symposium of the American Vacuum Society, Houston, TX, December 1985.
13. "Surface State Dispersion on Ta(001)," R.A. DiDio, D.M. Zehner, S.C. Lui, and E.W. Plummer, 1986 March Meeting of the American Physical Society, Las Vegas, NV, March 1986.
14. "Spreadsheet Implementation of Function Iteration: Simple Classroom Demos," Regional Institute in Dynamical Systems, Boston University, MA, July 1990.
15. "Spreadsheet Visualization of 2-D iterated maps: The Henon Attractor and the Devil's Staircase," Joint meetings of Mathematical Association of America/American Mathematical Society, Baltimore, MD, January 1992.
16. "Power Series Calculations Using Spreadsheets," Conference on Computing in the Calculus, Rennselaer Polytechnic Institute, Troy, NY, May 1992.
17. "Mathematical Modeling on the TI-81: Population Dynamics," Graphing Calculator Conference, Philadelphia Schools Collaborative, Edison/Fariera High School, Philadelphia, October 1992.
18. "The Pendulum that Ate Pittsburgh – Using a Graphing Calculator for Power-Law Modeling," Graphing Calculator Conference, Philadelphia Schools Collaborative Edison/Fariera High School, Philadelphia, October 1993.
19. "Training your spreadsheet: Neural nets for the undergraduate classroom," Joint meetings of the Mathematical Association of America/American Mathematical Society, Cincinnati, OH, January 1994 (Note: Paper accepted, but not delivered due to inclement weather.)
20. "Sequences on the TI-82: Systems of Non-Linear Equations and Population Modeling with Time-Delays," Graphing Calculator Conference III, Philadelphia Schools Collaborative, Edison/Fariera High School, October, 1994.

21. "Approximating Chaotic Behavior: Revisited and Reconsidered," D.J. Falcone, R.A. DiDio, & K. Salmon, Eastern Psychological Association Convention, Philadelphia, PA, 1996 (Poster).
22. "Discrimination Tasks in Neural Networks: What They Learn, What They Don't, and Why," D.J. Falcone, B. Satterfield, and R.A. DiDio. Meeting of the American Psychological Society, Washington, D.C., May 1997. (Poster).

Invited & La Salle Presentations

1. "Principles of Angle-Resolved Photoemission," Oak Ridge National Laboratory, Oak Ridge, TN, December 1981.
2. "Momentum Dependent Lineshapes in Photoemission," University of Rome, Italy, and Chalmers University, Goteborg, Sweden, February 1984.
3. "The Segregation of Phosphorus in Steel," Brown-Boveri Corporation, Baden, Switzerland, February 1984.
4. "Computer Revenge: The (Iterated) Prisoners' Dilemma," CSC/MTH Club Lecture Series, La Salle University, December, 1988.
5. "Iteration, Random Fractals, and Chaos," KME seminar, La Salle University, February, 1991.
6. "From Cantor to Chaos," Moravian College, Bethlehem, PA, March, 1991.
7. "Computer Graphics: Chaos and Fractals," Sandia High School, Albuquerque, New Mexico, May, 1991.
8. "From Cantor to Chaos," Temple University, November, 1991.
9. "Fractal Follies," KME seminar, La Salle University, February, 1992.
10. "Mathematical Modeling on the TI-81: Population Dynamics"
11. Montgomery County Community College Faculty Development Institute, Using the Graphing Calculator, 30 January, 1993
12. Temple University, 17 February, 1993
13. "The Use of Electronic Spreadsheets in Elementary Probability and Statistics," Temple University, 24 February, 1993.
14. "Random Fractals," Temple University, July 1993.
15. "The Pendulum that Ate Pittsburgh – Using a Graphing Calculator for Power-Law Modeling"
16. Temple University, July, 1993
17. Montgomery County Community College, 2nd Annual Faculty Development Institute, Mathematics Using the Graphing Calculator and Internet, 19 March, 1994
18. "Chaos: A New Paradigm for Deterministic Physics," La Salle University Philosophy Series, November 30, 1994 (w/ B. Strieb of La Salle).
19. "Can Machines Have Consciousness?" (In Honor of Descarte's 300th birthday) La Salle University Philosophy Series, November, 1996 (w/ M. Moreau , G. Ballough, and D. Falcone of La Salle).
20. "The Impossibility of Fair Voting and Apportionment," La Salle University Republicans, April 2001 (w/ M. Smalarz, La Salle).

21. “Goethe, Color Theory & Chaos,” La Salle University Graduate Program in Central and Eastern European Studies, May 2003.
22. “Discovery Learning & Writing Assignments in Undergraduate Mathematics,” Drexel University Mathematics Department, July 21, 2004.
23. “The Infinity of Inverse Nothingness,” The Nothing Cabaret, Institute of Contemporary Art, University of Pennsylvania, July 21, 2004.
24. “The Impossibility of Guaranteeing a Fair Election: What the Mathematics of Voting says about the best Guitar Player in the World and the winner of a Presidential Election,” a seminar in political ethics, given as part of the La Salle Communication and Political Science Departments’ Semester of Politics and Civic Engagement, October 6, 2004.
25. “1905: The Year in Which Einstein Revolutionized Physics,” a public forum given to celebrate the centennial year of Einstein’s Annus Mirabilis. La Salle University, November 15, 2005 (w/ B. Strieb and S. Longo of La Salle).
26. “Bloggin’ the Night Away: Encouraging Student On-Line Participation,” LVJ Summer Institute, La Salle University, June 13, 2006.
27. “The Chaos Game and Fractal Strategies,” 2006-2007 University Colloquium Series, Arcadia University, November 14, 2006.

Graduate Defense Committees (External Examiner)

1. Priya Vaidyanathan, “AFM-Based Cellular Probes: Imaging and Membrane Mechanics,” Master’s Degree defense, Drexel Univ., 2004.
2. Karpagam Aravindhnan, “Assessing the effects of LXR Agonists in Cholesterol Handling: Stable Isotope Tracer Studies,” Ph.D. defense, Drexel Univ., 2005.

Textbook Reviews

1. “Mathematics and Calculus with Applications (Bittinger and Crown), vs. Finite Mathematics and Calculus with Applications (Lial and Miller): A Review,” Scott, Foresman/Little, Brown Publishers, July, 1989.
2. “McKeague: Intermediate Algebra, 5/e,” Saunders College Publishing/Harcourt Brace College Publishers, September 1994.
3. “Internet Module” (Author not divulged) , The O’Leary Series of Introductory CSC books, McGraw-Hill, April, 1995.
4. “Zill and Cullen: Differential Equations with Boundary-Value Problems 5/e,” Brooks/Cole, July, 2002.
5. “Boyce/DiPrima: Elementary Differential Equations and Boundary Value Problems, 8e,” Wiley, October 2004.
6. “Ohanian & Markert: Physics for Engineers and Scientists 3e,” Norton, October 2006.

Book Reviews (Published)

1. “The Scientist-tycoon whose work on radar helped win WWII,” a review of *Tuxedo Park*, by Jennet Conant, Philadelphia Inquirer, July 21, 2002.
2. “The surveyor's chain and America: Enlightenment ideals, land speculation and geometry intersect,” a review of *Measuring America: How an Untamed Wilderness Shaped the United States and Fulfilled the Promise of Democracy*, by Andro Linklater, Philadelphia Inquirer, November 24, 2002.
3. “How the everyday objects that we use have transformed us,” a review of *Our Own Devices: The Past and Future of Body Technology*, by Edward Tenner, Philadelphia Inquirer, June 8, 2003.
4. “Travel writer Bill Bryson conducts engaging tour of 'nearly everything,’” a review of *A Short History of Nearly Everything*, by Bill Bryson, Philadelphia Inquirer, August 31, 2003.
5. “High jinks are back in life of Monty,” a review of *The Pythons Autobiography*, by The Pythons., Philadelphia Inquirer, December 30, 2003.
6. “ ‘Shadow’ Illuminates Power of Words,” a review of *The Shadow of the Wind*, by Carlos Ruiz Zafón, Philadelphia Inquirer, July 19, 2004.
7. “When electric light was a scary idea,” a review of *Dark Light: Electricity and Anxiety From the Telegraph to the X-Ray*, by Linda Simon, Philadelphia Inquirer, August 16, 2004.
8. “ ‘Intellectual Morons' a guide flawed by personal invective,” a review of *Intellectual Morons: How Ideology Makes Smart People Fall for Stupid Ideas*, by Daniel J. Flynn, Philadelphia Inquirer, December 13, 2004.
9. “Confidante writes of the Jimi she knew,” a review of *Jimi Hendrix: The Man - The Magic - The Truth*, by Sharon Lawrence, Philadelphia Inquirer, May 11, 2005.
10. “Memories are made of this: Reading is the magic in Eco's new novel,” a review of *The Mysterious Flame of Queen Loana*, by Umberto Eco, Pittsburgh Post-Gazette, July 31, 2005.
11. “Real-life tale of the theft, dramatic recovery of 'The Scream',” a review of *The Rescue Artist: A True Story of Art, Thieves, and the Hunt for a Missing Masterpiece*, by Edward Dolnick, Philadelphia Inquirer, Oct. 13, 2005.
12. “Collectively written novel is a fine, sprawling epic,” a review of “54” by Wu Ming, Philadelphia Inquirer, Oct. 29, 2006.
13. “A quirky, provocative catalog of 'sublime' creators,” a review of *Creators: From Chaucer and Dürer to Picasso and Disney*, by Paul Johnson, Philadelphia Inquirer, Nov. 8, 2006.

Other Publications

1. “Elimination of Impurity-Induced Embrittlement in Steel,” C.J. McMahon, Jr., S. Takayama, T. Ogura, S.-C. Fu, J.C. Murza, W.R. Graham, and R.A. DiDio, Electric Power Research Institute NP 1501, 1980.
2. “Core Level Spectroscopy of Ta(001) and TaC(001),” R.A. DiDio, G.R. Gruzalski, and D.M. Zehner, Oak Ridge National Laboratory ORNL-6453, 1988.

3. "Spreadsheet Mathematics: Generating Chaos and Fractals," LaSalle Computer Information Digest (LUCID), Spring, 1992.

Representative Conferences & Workshops Attended

1. Evaluating College Faculty, La Salle University, November, 1987
2. Writing Across the Curriculum, La Salle University, May 1988
3. Second Boston Workshop for Mathematics Faculty (with G. Strang/MIT), Regis College, Wellesley, MA, August 1988
4. Creating a Climate for Learning, Pennsylvania Department of Education Conference, Harrisburg, PA, April, 1989
5. CHAOS '89, University of Rhode Island, Kingston, R.I., June, 1989
6. Cognition and Teaching, PEW seminar/workshop, La Salle University, May, 1990
7. Chaos and Computation: Dynamics Retrospective, Stephen Smale, Hans Rademacher Lectures in Mathematics, University of Pennsylvania, April 1991
8. Knowledge and Responsibility, PEW seminar/workshop, La Salle University, Fall, 1991
9. Conference on the Introductory Physics Course, Rensselaer Polytechnic Institute, Troy, NY, May 1992
10. Connecting Knowledge, PEW seminar/workshop, La Salle University, Fall, 1992
11. Project Kaleidoscope Regional Workshop on Reforming Introductory Math and Science Courses, Bryn Mawr College, July 1993
12. Seminar for Department Chairs, Council of Colleges of Arts and Sciences, Washington, DC, April, 1995
13. Teaching, Learning, and Technology Roundtable Workshop, Edison, New Jersey, November 1997
14. Syllabus Press Educational Technology Conference, American University, November 1998
15. Project Kaleidoscope 10th Anniversary: Celebrating a Decade of Reform, University of Maryland, October 1999
16. Brain-Based Research and Inquiry Learning K-20, Dr. Lawrence Lowery (Berkeley). Valley Forge, PA, Oct. 2004.
17. MSPGP Math/Science Pedagogy Workshop, Haverford College, May 2005
18. First Annual MSPGP Mathematics and Science Education Research Conference, Bryn Mawr College, March 2006
19. MSPGP Math/Science Pedagogy Workshop, Bryn Mawr College, May 2006

Research Advising Activities

Research sponsored by La Salle's Institute for the Advancement of Mathematics and Science Teaching (IAMST)

1. Brian Satterfield, "Spreadsheet Implementation of Neural Networks: The Trainability Boundary, Non-Learning and Chaos", 1996. Note: Additional research performed with D. Falcone of Psychology as co-advisor culminated in the manuscript "Discrimination Tasks in Neural Networks: What They Learn, What They Don't, and Why." Mr. Satterfield presented these results at the following conferences:

- Moravian College Student Mathematics Conference, Bethlehem, PA, March, 1997
- Meeting of the American Psychological Soc., Washington, D.C. May, 1997 (poster)
- 2. Matthew Berran, “Design and Implementation of a Windows-Based Application for Modeling and Visualizing Oscillating/Chaotic Chemical Reactions”, 1997.
- 3. Therese Leonard, “A Study in Calculus Reform: An Interactive Approach”, 1997.
- 4. Brian Satterfield, “Neural Networks and Contaminant Transport: An Alternative Modeling Approach” (Co-advisor with D. Falcone, Psych Dept., La Salle U.), 1997.

Sabbatical/Student Research Activities at Drexel University

- 5. Priya Vaidyanathan, “AFM-Based Cellular Probes: Imaging and Membrane Mechanics,” 1st-prize winner in graduate category at Arts and Sciences Research Day, 2004, Honorable mention in Emerging Technology: Graduate student category at Drexel University Research Day, 2004 (w/ K. Balashev and N. J. DiNardo of Drexel).
- 6. Yomayra Ocasio, “Insulin Fibrillogenesis Studied by Atomic Force Microscopy,” an NSF-REU project at U. Penn/Drexel , August 2004 (w/ K. Balashev and N. J. DiNardo of Drexel).

La Salle Faculty Development and Student Workshops Designed/Delivered

- 1. “Using DERIVE in the Classroom: A Workshop for Mathematics and Science Faculty,” La Salle University, January 9 and 10, 1992
- 2. “Beyond Notes Mail: Techniques and Teaching with Discussion and Document Databases,” La Salle University, June 1999
- 3. “Fractal Workshop: The Experimental Determination of Fractal Dimensions,” La Salle University, October 2005

Mathematics/Science/Technology Media Activities

- 1. Appeared on Wisconsin Public Radio’s *The Ideas Program* in a 1-hour call-in concerning Wisconsin legislative efforts to ban the use of calculators in state assessment tests, November 2001.
- 2. Interviewed by the Fresno Bee for an article on the burgeoning of passwords in the Internet age, February 3, 2002.
- 3. Interviewed by KYW radio on how to put the 2 trillion –dollar budget into perspective, February 12, 2002.
- 4. Interviewed by the Washington Post for an article on the 100th anniversary of air-conditioning, July 17, 2002.
- 5. Appeared on “Insight” – a weekly interview program on La Salle University’s cable Channel 56. Aired numerous times since its filming in April 2002, the interview focuses on the teaching of the core course “Mathematics: Myths and Realities.”
- 6. Interviewed about “cell-phone manners in the classroom” by the Scripps-Howard news service. The article has appeared in many smaller papers such as the Maryland SunSpot, Peoria Journal Star, Wilkes-Barre Sunday Voice, & Ogden Standard Examiner, late 2002 – early 2003.

7. Interviewed by USA Today for a special issue on Technology covering online user manuals for consumer electronics, June 2, 2003.
8. Interviewed by the Fort Worth Star Telegram about errors in the physics section of the Texas Education Agency's 11th-grade science test, June 6, 2003.
9. Interviewed by the Columbus Dispatch about Einstein's Annus Mirabilis (miracle year) of 1905, November 29, 2005.

Representative Service Activities at La Salle University

Resident Advisory Committee, 1988 - 1989

Athletic Committee, 1990 - 1991

Chair, Ad-hoc Committee on Non-Scholarship Football, 1991

Mathematical Sciences Departmental Board, 1989-1991

Faculty Senate, 1991 – 1994, 2002 - 2005

Faculty Affairs Planning Committee (faculty salary committee), 1992 - 1994 (Chair 1994), 2002 - 2005

Institute for the Advancement of Mathematics and Science Teaching (IAMST) Steering Committee, 1994 - 1997

Arts and Sciences Curriculum Committee, 1994 - 2001

Co-chair, Teaching, Learning, Technology Roundtable (TLTR), 1998 - 2001

Core Curriculum Advisory Group, 2000 - 2003

Board Memberships

Jenkintown Public Library (2005 -)

Painted Bride Art Center, Philadelphia, PA (2004 - 2006)

Archbishop Ryan High School, Philadelphia, PA (1999 - 2003)

Building Blocks Child Development Center, Philadelphia, PA (1999 - 2001)