

J. Scott Lykens, Ed.D.

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EDUCATION

- Ed.D. Innovation and Leadership, *May 16, 2003*
Wilmington University, Wilmington, Delaware
- M.Ed. Science Education, Concentration: Chemistry and Physics, *February 1995*
Delaware State University, Dover, Delaware
- B.A. Secondary Education, Concentration: Chemistry and Physical Science, *May 1985*
Fairmont State University, Fairmont, West Virginia

HONORS

- Caesar Rodney School District Teacher of the Year, *1998 – 1999*
- Caesar Rodney High School Teacher of the Year, *1998 – 1999*
- Bell Atlantic EarthWatch Award: Forrest of Bohemia (Prague, Czech Republic), *Summer 1997*
- Delaware Learn and Serve Award Winner, *Winter 1996*
- Outstanding TRAC Research Fellowship (University of Tennessee), *Summer 1993*
- Department of Energy Teacher Researcher Award (Oak Ridge, TN), *Summer 1992*
- Hope College Honors Chemistry Program (Hope College, Holland, MI), *Summer 1990*
- Woodrow Wilson National Fellowship (Princeton University, Princeton, NJ), *Summer 1989*

ADMINISTRATIVE EXPERIENCE

Southern Delaware Program Coordinator and Southern Delaware AA-ETE Program Coordinator, *January 2016 – present*

University of Delaware Georgetown Campus

- Advise AA ETE students (currently 34 students) during their freshman and sophomore years.
- Recruit and retain new students into the AA ETE program.
 - Meet with Kent and Sussex school
 - superintendents
 - high school principals
 - high school counselors
 - high school teachers
 - high school students
- Present at College Fairs, Decision Nights, and New Student Orientation.
- Recruit teachers and administrators into University M.Ed. and Ed.D. programs.

- Work with instructors at the Georgetown Campus who want to use the I-TV classroom.
- Instructor for EDUC 100: Introduction to Elementary and Middle School Education.
- Instructor for SCEN 101: Physical Science - Physics
- Instructor for EDUC 658: Discipline and Classroom Management.
- Instructor for EDUC 879: Internship in Education Part I: Case Studies
- Instructor for EDUC 879: Internship in Education Part II: Structured Summer Internship

Assistant Superintendent, July 1, 2014 – January, 2016

Caesar Rodney School District

- Assisted the Superintendent substantially and effectively in the task of providing leadership in developing, achieving, and maintaining the best possible educational programs and services for the staff and students of the district
- Served as acting Superintendent when the Superintendent was out of the district. This included attending meeting and keeping district appointments.
- Maintained the safety and well-being of district staff and students.
- Conducted student discipline hearings.
- Chaired district committees such as Parent Liaison, District Liaison, Calendar, Reconciliation, and Curriculum Cabinet.

Director of Instruction, February 1, 2012 – January 2016

Caesar Rodney School District

- Maintained a liaison with principals in implementing the philosophy and goals of the District.
- Developed and implemented the general instruction programs for grades K-12, including career and technical education programs, summer school programs, all day kindergarten, Literacy First, programs for the gifted and talented, Title I programs, and intervention programs, as well as the implementation of new or revised curricular programs.
- Lead the District in ongoing programs for improving the evaluation, testing, and assessment of student achievement. Coordinated and evaluated the instructional program as it related to district policy, goals and objectives and projected student achievement.
- Directed the curriculum council and curriculum cabinet process.
- Assisted with preparations of administrative procedures and regulations for conduct of schools.
- Informed and disseminated information regarding curricular needs, trends, and research findings.
- Organized and planned staff development activities for the instructional staff.
- Coordinated the development and administration of the School Improvement Plans, Consolidated Grant process and other State initiatives.
- Coordinated and oversaw the DPAS II instruction and teacher growth and accountability component of the evaluation process for professional staff.
- Coordinated the mentoring program on a district-wide level.
- Participated in the development of budget priorities in support of instructional program including the Consolidated Grant application which brings a little over 5 million dollars to the district.
- Managed the budget for the Division of Instruction which was a little over 4 million dollars.
- Coordinated the grant writing for the Division of Curriculum and Instruction which was awarded nearly 2.5 million dollars in state and federal grant awards during my tenure as Director.
- Managed a Division which included 13 persons on-site in the central office and another 23 staff located in the building across the district.
- Some of the accomplishments during tenure as Assistant Superintendent and Director of Instruction include:
 - 4 National Blue Ribbon Schools (Stokes, Star Hill, Frear, and Simpson)
 - 5 Reward/Recognition Schools

- 5 Superstars in Education Awards
- 4 Parental Involvement Awards
- Advanced Placement Honor Roll Award for Caesar Rodney High School
- National School Board Association's Honorable Mention Magna Award
- Number of Advanced Placement courses increased from 17 to 23
- Number of students taking Advanced Placement classes increased from 243 to 538
- Number of Advanced Placement exams taken increased from 358 to 854
- Number of AP Scholars increased from 41 to 108
- Launch of the Chinese Immersion program; currently there are 400 elementary students taking Chinese in grades K through 3
- Launch of the Spanish Immersion program; currently there are 100 student participating in grades K and 1
- Began offering Chinese and Spanish at our 3 middle schools in grades 7 and 8
- Increase the number of world language offerings at the high school from 4 to 7 (Spanish, French, Latin, German, Chinese, Arabic, and Italian)

Supervisor of Instruction, July 2000 to January 2012

Caesar Rodney School District

- Responsible for the oversight of the K – 12 mathematics curriculum, material, and professional development.
- Responsible for the oversight of the K – 12 science curriculum, material, and professional development.
- Responsible for the oversight of the 6 – 12 career and technical education curriculum, material, and professional development.
- District facilitator for the Science Council.
- Designed the refurbishment model for science kits in grades K to 8.
- District facilitator for the Math Council.
- District facilitator for the Careers Council.
- Designed a professional development program for elementary teachers. Program became so successful that many teachers from other Delaware schools and even teachers from other states began attending.
- Worked with teachers to develop Quarterly Assessments in all content areas.
- Coordinated the completion of the Consolidated Grant Application.
- Budgeted and maintained finances for the Federal Perkins funds and the State 509 funds (over \$300,000).
- Developed a District wide Perkins funding process for district CTE teachers. The funding process was so successful that the Delaware Department of Education asked if they could use it as an example for other districts to use as a model.
- Responsible for the purchase and installation of educational technology. Also responsible for the professional development to go along with the technology.
- Designed and carried out a plan where we purchased and installed Smart Boards, LCD projectors, and document cameras in every classroom (kindergarten through high school) and trained every staff member (teachers and administrators) in 18 months. That meant the installation of over 500 Smart boards, LCD projectors, and document cameras and a full day of professional development for over 600 individuals.

Assistant Principal, July 1998 to June 2000

Caesar Rodney High School

- Supervised and evaluated 32 teachers, 4 paraprofessionals, and 2 secretaries.

- Placed in charge of grade reporting and transcripts for slightly over 2,100 students.
- In charge of creating the master schedule for entire high school.
- Assisted with conducting the September 30th unit count.
- Assisted with the organization of commencement.
- Placed as the administrator in charge of athletics. Supervised coaches, mediated parent issues and arranged administrative coverage for home activities.
- Provided professional development in the areas of standards-based grading and understanding how poverty impacts schooling.

TEACHING EXPERIENCE

Assistant Professor *January 2016 to present*

University of Delaware

College of Education and Human Development, School of Education

- EDUC 100: Introduction to Elementary and Middle School Education
 - Instructor (August 2016 to present)
- EDUC 658: Classroom Management and Discipline
 - Instructor (August 2016 to present)
- EDUC 879: Internship in Education Part 1: Case Studies
 - Instructor (February 2016 to present)
- EDUC 879: Internship in Education Part 2: Structured Summer Internship
 - Instructor (February 2016 to present)

College of Arts and Science

- SCEN 101: Physical Science, February 2017 to present
 - Instructor (February 2017 to present)
- SCEN 491: Methods of Teaching Science
 - Assisted Dr. Kate Scantlebury as part of an NFS grant (August 1994 – May 1998)

Adjunct Instructor, *June 2002 to 2011*

Wesley College

- Instructor PS 108 Physical Science
- Instructor ES 205 Environmental Science

Adjunct Instructor, *1996 to 1998 and 2000 to 2002*

Delaware Technical and Community College – Dover

- Instructor CHEM 100
- Instructor CHEM 110

Teacher, *October 1985 to June 30 1998*

Caesar Rodney High School

- Taught Physical Science, Chemistry, Advanced Chemistry, and Advanced Placement Chemistry.
- Science Department Chair, *1993 to 1998*
- District Science Curriculum Council Chair, *1992 to 1998*
 - Designed the curriculum sequence and professional development model to move from a textbook based science curriculum to a kit based hands-on science curriculum in grades kindergarten through 8.

SERVICE EXPERIENCE

State

- DOE Career and Technical Education Advisory Board, *Fall 2014 to Fall 2016*
- Delaware Math Coalition, Leadership Board, *2009 - 2011*
- State of Delaware, Department of Education, Design Team Member for Science Content Standards Clarifying Document, *Spring 2006*
- Delaware Carl Perkins Reauthorization Workgroup, *2005*
- State of Delaware Science Standards Review Committee, *Spring 1992*

College

- Secondary Mathematics Education Advisory Board for Delaware Technical and Community College Chair, *Fall 2008 to Winter 2016*

Caesar Rodney School District

- Curriculum Cabinet Chair, *2012 – 2016*
- Curriculum Cabinet Member, *1992 to 2016*
- Calendar Committee, *2010 – 2015*
- Science Council Facilitator, *2000 – 2012*
- Math Council Facilitator, *2000 – 20012*
- Careers Council Facilitator, *2000 – 2012*
- Reconsideration Committee Member, *2006 to 2009*
- Superintendent Search Committee, *2007*
- Standards Based Grading Committee Chair, *2002 - 2004*
- Science Chair, *1992 - 1998*
- High School Science Department Chair, *1993 to 1998*

PAPERS AND PUBLICATIONS

Published dissertation

An Evaluation of a Standards-Based Mathematics Program (Math Trailblazers) in Delaware's Caesar Rodney School District UMI, 2003

Lykens, S. (1999). A New Administrator's Perspective: Or Sometimes it is Dangerous to get the Point. *Delaware Leaders*, Delaware Association of School Administrators

Contributing author (1990): *In the Middle of Science*. Princeton Press

Scantlebury, K., Johnson, E., Lykens, S., Clements, R., Gleason, S., & Lewis, R. (1996). Beginning the cycle of equitable teaching: The pivotal role of cooperating teachers. *Research in Science Education*, 26 (3), 271-282.

CONFERENCE PRESENTATIONS

Scantlebury, K., Henderson, P., Lykens, S., Clements, R., Sossion, T., & Troxell, L. (April, 1998). *Enhancing equity in science teaching: A collaborative effort*. Paper presented at the NSTA, National Meeting, Las Vegas, NV.

Scantlebury, K., Bailey, B., Henderson, P., Lykens, S., Clements, R., Gleason, S., & Troxell, L. (April, 1997). *Effective collaborations that promote and produce exemplary science teachers*. National Science Teachers Association (NSTA), National Meeting, New Orleans, LA.

Scantlebury, K., Gleason, S., Lykens, S. R., & Bailey, B. (March, 1996). *Cooperating teachers: Catalysts for challenging and changing preservice teachers teaching practices*. American Chemical Society, New Orleans, LA.

Scantlebury, K., Bailey, B., Letts, W., Johnson, E., Lykens, S., Clements, R., Gleason, S., & Lewis, R. (January, 1996). *Creating a cycle of equitable teaching*. Association for the Education of Teachers in Science, Seattle, WA.

Scantlebury, K., Gleason, S., Bailey, B., & Lykens, S. (August, 1995). *Using research tools with cooperating teachers to improve the classroom practice of student teachers*. American Chemical Society, Chicago, IL.

Asano, K. G., Lykens, S. (1992). *Comparison of Electron Ionization and Chemical Ionization Sensitivities with the ITS40 and the TSQ 700* Annual Mass Spectroscopy Conference, Washington, D.C.

Lykens, S. (March, 1992). *Department of Energy Teacher Researcher Program: Work like a scientist*. National Science Teachers Association (NSTA) National Meeting, Boston, MA.

Adams, R., Lykens S. (April, 1990). 101 Demonstrations in 60 minutes. National Science Teachers Association (NSTA) National Meeting, Atlanta, GA.

WORKSHOPS AND PROFESSIONAL DEVELOPMENT

Workshop Presenter (Professional Development Cluster)

Caesar Rodney School District

- Understanding Poverty: Closing the Achievement Gap (3 yearlong sessions), *August 2006 – May 2007, August 2007 – May 2008, and August 2008 – May 2009*
 - Led yearlong professional development for 50 teachers centered on Dr. Ruby Payne's work.

Workshop Leader

Caesar Rodney School District

- Getting Groovy with Tie-Dyeing, *April 1998 and March 1998*
 - This workshop designed for elementary teachers consisted of four activities that relate to color and integrate science, literature, math and social studies as much as possible. The actual tie-dyeing material was entirely developed by the advanced chemistry classes at Caesar Rodney High School. The students were responsible for the background (both historical and chemical), procedure, related Internet sites, and putting it all together into a useable packet. Many students volunteered their time to prepare the chemicals and set up the rooms. These activities attempt to integrate hands-on activities to get the students handling the tools and materials of science. Workshop participants also left will all the materials to conduct the activities in their own classrooms, including a copy of the book *Rainbow Crow* by Nancy Van Laan which is based on the Lenape legend. Participants

also created a tie-dyed lab coat which to wear when they did science experiments in their classrooms and participants were given materials to tie-dye white cotton t-shirts (including the t-shirts) for Field Day activities at their schools.

Workshop Leader

Caesar Rodney School District

- Old Black Fly and other Transmitters of Disease, *March 1995*
 - The workshop introduces elementary teachers to three activities that relate to the transmission of disease that they can do in their classrooms. The first activity involves the construction of a fly from simple household items and incorporates the children's literature book *Old Black Fly* by Jim Aylesworth. The book demonstrates how flies transmit disease from one place to another. The second activity illustrates the transmission of disease through an M&M activity, this would relate to proper hand washing. Finally, the last activity illustrates how disease can be spread by mixing and sharing "bodily" fluids. Workshop participants were given all the materials to conduct all experiments in their own classrooms, including the book *Old Black Fly* by Jim Aylesworth.

PROFESSIONAL DEVELOPMENT ACTIVITIES

Professional Learning Communities

Attended PLC conference by Solution Tree

Understanding Poverty: Closing the Achievement Gap

Certified Trainer – certified by Dr. Ruby Payne

Learning Focused Solutions

Attended multiple days of LFS training

Inclusive Schools Training

Attended training by Stetson and Associates

Attended Schools Attuned Training

Presented by All Kinds of Minds

Curriculum Audit/Curriculum Management System

Certified by Dr. Fenwick English

EarthWatch – 1996

Institute of Applied Ecology

Prague, Czech Republic

Oak Ridge National Laboratory – 1991

Oak Ridge Tennessee

Chemistry Program at Hope College – 1990

Holland, Michigan

United States Space Academy – 1990

Huntsville, Alabama

Woodrow Wilson Master Teacher Program – 1989
Princeton, New Jersey

PROFESSIONAL MEMBERSHIPS

Delaware Association of School Administrators (DASA)

National Science Teachers Association (NSTA)

American Chemical Society (ACS)

Association of Supervision and Curriculum Development (ASCD)

Association for Teachers in Science Education

Kappa Delta Pi

CERTIFICATIONS

Standard Certificate: School Leader II
Delaware Department of Education

Standard Certificate: School Leader I
Delaware Department of Education

Standard Certificate: Supervisor – Curriculum and Instruction
Delaware Department of Education

Standard Certificate: Assistant Principal/Principal
Delaware Department of Education

Standard Certificate: Teacher of Chemistry
Delaware Department of Education

Standard Certificate: Teacher of General Science
Delaware Department of Education

DPAS II (R) Expert Evaluator
Delaware Department of Education