

CARMEN DiGREGORIO

Lead Photonics Instructor

West Mesa High School
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CURRENT POSITION: Lead photonics instructor and math/science instructor at West Mesa High School

EDUCATION: University of New Mexico, Masters in Education, CIMTE 1992
• Secondary Science endorsement

University of New Mexico, Bachelor of Science, Math 1990
• Secondary Math endorsement

PROFESSIONAL APPOINTMENTS:

- Certified Math & Science teacher at West Mesa High School. Subjects taught include Algebra I, Pre-Algebra, Developmental Physical Science, Physical Science, Developmental Biology, Biology I Regular, Environmental Studies, Chemistry, Physics, AP Physics and Photonics.
- Served as a national Visiting committee member for the NSF evaluation of the STEP II project for CORD (Center for Occupational Research and Development) 2004-2005.
- Current Math Science and Technology lead teacher representing WMHS in the Cluster.
- Worked as a research lab tech in developing a Sol-Gel optics coating for solar collectors.

PROFESSIONAL MEMBERSHIPS: SPIE Member

AWARDS: 2004 Teacher of the year

SIGNIFICANT CONTRIBUTIONS:

- Developed high school curriculum in Photonics and developed collaboration with area post secondary institutions.
- Involved students in the Phillips Laboratories Students Performing and Conducting Engineering (SPACE) program during 1997-1998, 1998-1999, and 2000-2003. Students were published in 2001 in AIAA.
- MANOS Program Site coordinator - every March 1996-2004
- Collaborate with Sandia National Lab professionals to encourage WMHS middle school feeder students to take challenging courses in math, science and technology through after school hands on workshops.
- NEW MEXICO M.E.S.A. Student Advisor, 8-15-96 to 7-30-00. Advised and track students in course selection and performance. Provide enrichment activities, attend and organize interschool competitions, supervise and attend student field trips, collaborate with the MESA parents group and taught summer enrichment course in chemistry for MESA students including field trips to relevant facilities.