

**Martha N. Cyr**

**PROFESSIONAL INTEREST**  
Teaching and promoting math,  
science, and engineering education  
for K-16 learners and educators.

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## **EDUCATION**

Ph. D., Mechanical Engineering, Worcester Polytechnic Institute (1997)

M. S., Mechanical Engineering, Worcester Polytechnic Institute (1987)

B. S., Mechanical Engineering, University of New Hampshire (1982)

**K-12 Outreach, Director** 2003-present

Worcester Polytechnic Institute, Worcester, Massachusetts

Coordination, development, and representation of K-12 educational outreach programs to promote learning in math, science and engineering.

**Mechanical Engineering Adjunct Faculty** 2003-present

Worcester Polytechnic Institute, Worcester, Massachusetts

Lecture, examination, and laboratory work preparation and presentation, as required, for Introduction to Combustion and Heat Transfer.

**Center for Engineering Educational Outreach, Director** 1997-2003

Tufts University, Medford, Massachusetts

Coordination, development, and representation of all School of Engineering K-12 educational outreach programs. Grew number of K-12 outreach programs from six to twenty four with annual funding through grants in excess of \$1 million.

## **SELECT FUNDED PROJECTS**

“Massachusetts Technician Education Collaborative (Mass-TEC)” National Science Foundation ATE proposal to Quinsigamund Community College, \$750,000, 2007-2010 (Co-PI)

“Central MA Center for Engineering is Elementary” Intel Education Foundation, \$24,280, 2007 (PI)

“Building a Better Science & Technology/Engineering Background” Massachusetts Math and Science Partnerships, Title IIB, \$309,461, 2006-2009 (PI)

“A Comprehensive Pathway for K-Gray Engineering Education” Collaborative proposal with Univ. California at Berkeley, Univ. Colorado at Boulder, Colorado School of Mines, Duke University and Oregon State University to National Science Foundation National Digital Library Program, \$237,143, 2005-2009 (Co-PI)

## **SELECT EDUCATIONAL RESOURCES**

Science Explorer, Middle School Science Series of sixteen texts, Prentice Hall. Program author for series. 2005

Making the Connection, Introducing Engineering to Students in Grades 3-12. Developed the supporting activities for this program. 2002

## **COMMITTEES AND ADVISORY BOARDS**

Women Engineering Program Advocates Network (WEPAN) Board Member, 2004 - present

National Academy of Engineering Committee on Assessing Technological Literacy, 2003 - 2005

American Society for Engineering Education K-12 Advisory Board, 2002-present

National Science Foundation, Chair, Michigan Tech CETP Visiting Committee, 2000-2003

Massachusetts Curriculum Frameworks Science and Mathematics Advisory Board, 1999-2006

Engineering in Massachusetts Collaborative, Executive Board, 1999-present