

Mark Roddy, Ph.D. - Teacher Education
Master in Teaching Program

College of Education – Seattle University
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Associate Professor of Education
Seattle University - Appointed Fall, 1992
Tenured Fall, 1998

EDUCATION

Ph.D. Mathematics Education University of Washington 1992
Dissertation: "Secondary Mathematics Teachers' Conceptions of Connections"

M.S. Atmospheric Sciences University of Washington 1987
Thesis: "Explosive Cyclogenesis in the Eastern Pacific: A Compositing Study"

Teaching Credential, Secondary Mathematics U.C., Riverside 1982

B.S. Mathematics University of California, Riverside 1981

EXPERIENCE

1998 – present Seattle University, associate professor of education

2014, Fall Semester University of Western Sydney, Australia, Casual Academic Tutoring
and Lectures

2005, Fall Semester University of Western Sydney, Australia, Visiting associate professor

2000, Fall Semester University of Limerick, Ireland, Fulbright Professor

1992 - 1998 Seattle University, assistant professor of education

1987 - 1991 Bellevue Community College, instructor, Meteorology 101

Summer, 1992, University of Washington, instructor, Atmospheric Sciences 101
1991, and 1988

Summer, 1990 United Indians of All Tribes Federation, instructor - ACE program

1983 - 1984 A.S. Johnston High School, mathematics teacher / coach

1982 - 1983

Bremond High School, mathematics teacher

SELECTED PUBLICATIONS (last 10 years only)

- Roddy, M. (2017). Why do they need to learn this? Thoughts about what we do in the mathematics classroom. Australian Mathematics Teacher. 73 (3)
- Roddy, M. and Behrend, K. (2015). Grow Beasts: Growing mathematical understanding. Australian Mathematics Teacher. 71 (2)
- Roddy, M. (2012). Northwest Math Sightings: Bracken math. Washington Mathematics, 56(4).
- Roddy, M. (2012). Northwest Math Sightings: Seeing the light – and counting it! Washington Mathematics, 56(3).
- Roddy, M. (2012). Northwest Math Sightings: Cooling math. Washington Mathematics, 56(3(2)).
- Roddy, M. (2011). Northwest Math Sightings: Sun sine math. Washington Mathematics, 55(5).
- Roddy, M. (2011). Northwest Math Sightings: Tree ring math. Washington Mathematics, 55(4).
- Roddy, M. (2011). Northwest Math Sightings: Tidal math. Washington Mathematics, 55(3).
- Roddy, M. (2011). Clouds. in the *Encyclopedia of mathematics and society*. Pasadena, CA: Salem Press.
- Roddy, M. (2009). Grow Beasts and the new Washington State standards in K-8 mathematics. Washington Mathematics, 52(2).
- Roddy, M. (2005). Assessment in High School at the Start of the 21st Century. in *Encyclopedia of Education and Human Development*, eds. S.J. Farenga and D. Ness. London, M.E. Sharpe.

SELECTED JURIED PRESENTATIONS (last ten years only)

- 56th Northwest Mathematics Conference Portland, OR
October, 2017
Grow Beasts: Growing understanding of measurement and inquiry in the primary grades
- National Council of Teachers of Mathematics (NCTM) Regional Conference Phoenix, AZ
October, 2016
Meaning and Motivation at the Active Intersection of Math and Science
- 55th Northwest Mathematics Conference Yakima, WA
October, 2016

Active Practices: Making some of the CCSSm practices a little more engaging

WSTA State Conference Shoreline, WA
October, 2015

Fitbits, Light Probes and Zillow: Quantification and the NGSS & CCSSM

National Science Teachers Association (NSTA) Annual Conference Chicago, IL
March, 2015

Middle School Motivation and Meaning
at the Active Intersection of the NGSS and CCSS
Mathematics

NCTM Annual Conference New Orleans, LA
April, 2014

Middle School Math Sightings

NSTA Area Conference Portland, WA
October, 2013

Seeing Math – Supporting Science

52nd Northwest Mathematics Conference Bellevue, WA
October, 2013

Mathematizing the World: Seeing Reasonable Math All Around Us

NCTM National Conference Denver, CO
April, 2013

Mathematizing the World: Seeing Reasonable Math All Around Us

Washington Science Teachers Association Annual Conference Yakima, WA
October, 2012

Seeing Numbers – Supporting Science

NCTM National Conference Philadelphia, PA
April, 2012

Grow Beasts: Growing Understanding through active engagement and inquiry

49th Northwest Mathematics Conference Spokane, WA
October, 2010

Grow Beasts: Meeting the standards and learning some math!

NCTM National Conference San Diego, CA
April, 2010

Grow Beasts: Growing Students' Understanding of Ratio, Proportion and Slope

School Science and Mathematics Association Annual Convention Reno, NV
October, 2009

Grow Beasts: Growing Students' Understanding of Ratio, Proportion and Slope

TOTOS – ASTE Regional Conference - Environmental & Sustainability Education Spokane, WA
May, 2009

Environmental Education Day: An organic context for growing best practices

NCTM National Conference Salt Lake City, UT
April, 2008

Fiveton: The Wise Kingdom of Renaming and Place Value

46th Northwest Mathematics Conference Bellevue, WA
October, 2007

Fiveton: The Wise Kingdom of Renaming and Place Value

SELECTED INVITED PRESENTATIONS (last ten years only)

Distinguished Guest Lectures University of Western Sydney, Sydney, Australia
August 2014: “Constructing Engagement”
September 2104: “Number Sense and a Sense of Number”

Teen Take Heart Summer Workshop Seattle, WA
August, 2012

Active Learning – Kit-based teaching

InCITE 2010 Annual Faculty Development Workshop Spokane, WA
June, 2010

An introduction to assessment used to promote learning

Puget Sound Council of Teachers of Mathematics Dinner Meeting Shoreline, WA
October, 2006

Dollar Store Math!

Workshop on Next Generation Nucleon Decay & Neutrino Detectors - NNN06. Seattle, WA
September, 2006

Getting Schools and Authentic Science Together

SEATTLE UNIVERSITY COMMITTEE MEMBERSHIPS (last10 years only)

- Consortium of Interdisciplinary Scholars, member of the steering committee (2017 -)
- Angel LMS Transition Committee (2010-2012)
- Technology Planning Committee, member and member of the Faculty Development subcommittee (2009 – 2012)
- Faculty Technology Committee, member and subcommittee chair (2006 - 2012)
- University Rank and Tenure Committee, member (2003 – 2007)
- 2006 Conference Committee - Western Conversations on Jesuit Higher Education
- Advisory board – Center for Excellence in Teaching & Learning (2003 – 2006)
- Design Task Force – Center for Excellence in Teaching & Learning (2002 – 2003)
- Teaching and Learning with Technology Roundtable, member (2002 – 2006)

COLLEGE OF EDUCATION COMMITTEE MEMBERSHIPS (last10 years only)

- College of Education Personnel Committee (Dean's Appointment) (2016 - present)
- Search Committee – Master in Teaching 1-year faculty position – (Winter, 2017)
- By-Laws Committee (2104-16)
- Middle College Advisory Board (2013 – 2015)
- Search Committee for 3-year faculty position: TESOL Program (2012-13)
- College of Education Personnel Committee (Dean's Appointment) (2012 - 2013)
- Search Committee – Master in Teaching 1-year faculty position – Committee Chair (Spring, 2012)
- Student Scholarship Award Committee (2011 – 2012)
- Search Committee for 3-year faculty position: Master in Teaching Program (2010-11)
- College of Education Personnel Committee (Dean's Appointment) (2007 - 2010)
- Search Committee for two positions: Master in Teaching / Special Education, member (2006 - 2007)
- Student Scholarship Award Committee (2003 – 2004)

SELECTED PROFESSIONAL AND ACADEMIC ASSOCIATION MEMBERSHIPS & ACTIVITIES

- National Council of Teachers of Mathematics (NCTM), member, conference speaker, journal referee (Mathematics Teaching in the Middle School) (1989-present)
- National Science Teachers Association (NSTA), member, conference speaker (1989 – present with lapses)
- Washington State Mathematics Council (WSMC), member, committee work, member of the board of directors, director for region VI (1995-2000), director of the Team Project portion of the State Mathematics Contest. (1997 – present)
- School Science and Mathematics Association (SSMA), member and conference speaker (2010 – 2015).
- Mathematical Association of New South Wales (MANSW), member, conference speaker (2005-2006).
- International Society for Technology in Education (ISTE), member (1996-2005)
- Computer Education Society of Ireland (CESI), member (2000-2001)

- 34th NW Mathematics Conference Committee, co-chair of the NCTM Sales Committee, conference speaker (1993-1995)
- Association of Mathematics Teacher Educators (AMTE), member
- Washington Science Teachers Association (WSTA), member, keynote conference speaker
- Puget Sound Science Supervisors, member, invited conference attendee
- Society for Information Technology and Teacher Education (SITE), member, conference speaker

COMMUNITY INVOLVEMENT (last 10 years only)

I am in charge of the Team Project portion of the State High School Mathematics Contest administered by the Washington State Mathematic Council.

I am a regular project presenter at Echo Lake Elementary School's annual Science Night.

I was a member and co-chair for the Science Parents group, which I helped to found in 1999, at Assumption St. Bridget School.

I was a member of the Board of Trustees for Forest Ridge School. I also served as chair of the Education Committee. I worked with the school from 1999-2007.