

Cornelis de Groot, Ph.D.
Associate Professor
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Education:

Doctor of Philosophy, Mathematics and Mathematics Education, May 2000. New York University, New York, NY.

Master of Science in Education, Mathematics Education, 1987. State University of New York, New Paltz, NY.

Undergraduate degree for teaching secondary mathematics and physics, January 1982. Stichting Opleiding Leraren, Utrecht, The Netherlands.

Teaching Certification/Licensure:

Mathematics, New York State

Physics and General Science, New York State

Chemistry, New York State

Teaching license in the Netherlands for mathematics and physics

Professional Experience:

- 2008 – present Associate Professor of Secondary Mathematics Education. University of Rhode Island, Kingston, RI.
- 2004 – 2008 Associate Professor of Elementary Education. State University of New York, New Paltz, NY, mathematics, science and technology education.
- 1998 – 2004 Assistant Professor of Elementary Education. State University of New York, New Paltz, NY, mathematics, science and technology education.
- 1996 – 1997 Teacher of mathematics in the Itinerant Computer Instruction Program, Ulster BOCES, New Paltz, NY, supporting K-5 teachers piloting and implementing mathematics reform curricula (0.2).
- 1993 – 1997 Teacher of mathematics, Ulster BOCES, New Paltz, NY, designer and teacher of the Electronic Learning Environment Calculus on-line course (0.2).
- 1986 – 1989 Adjunct professor in the Department of Mathematics and Computer Science. State University of New York, New Paltz, NY, taught college algebra and introduction to modern mathematics.
- 1985 – 1996 Teacher of Mathematics. New Paltz High School, New Paltz, NY. Taught any course from general mathematics to AP-Calculus AB and BC. (1.0)
- 1983 – 1985 Teacher of Physics and Chemistry, and Science Department chair. Millbrook High School, Millbrook, NY. (1.0)
- 1982 – 1983 Teacher of Mathematics grades 7-9. Rijks Scholen Gemeenschap “de Meergronden”, Almere, the Netherlands. (1.0)

Awards, Grants, and Honors:

- 2007 Discretionary salary increase, minor award, for excellence in teaching, scholarship, and service, SUNY New Paltz.
- 2006 Discretionary salary increase, major award, for excellence in teaching, scholarship, and service, SUNY New Paltz.
- 2005 Discretionary salary increase, major award, for excellence in teaching, scholarship, and service, SUNY New Paltz.
- 2003 Teacher Leader Quality Partnership (TLQP) Title IIA Higher Education competitive grant award: New York State K-8 Mathematics Mentor Network for the period of 2003-2008, funded at \$85,039 per year. Total funding for period: \$425,195.
- 2003 Student Computer Access Program award, SUNY New Paltz. Proposal for a Mobile Learning Academy funded at approximately \$24,000.
- 2003 Discretionary salary increase, major award, for excellence in teaching, scholarship, and service, SUNY New Paltz.
- 2002 Discretionary salary increase, major award, for excellence in teaching, scholarship, and service, SUNY New Paltz.
- 2001 Discretionary salary increase, major award, for excellence in teaching, scholarship, and service SUNY New Paltz.
- 2000 Discretionary salary increase, major award, for excellence in teaching, scholarship, and service, SUNY New Paltz.
- 1999 DDE Title IIA Higher Education competitive grant award: New York State K-8 Mathematics Mentor Network for the period of 1999-2003, funded at \$78,500 per year. Total funding for period: \$314,000.
- 1997 Exemplary Practice Award from Ulster County Board of Cooperative Educational Services, New Paltz, NY.
- 1996 Inducted in Phi Delta Kappa honor society, New York University Chapter.
- 1996 Research Assistant to the Mathematics Science and Technology Enhancement Program at New York University, New York, NY.
- 1995 Research Assistant to the Connected Mathematics Project, Michigan State University, East Lansing, MI., at Louis Armstrong Middle School, East Elmhurst, NY.
- 1994 Presidential Award for Excellence in Mathematics and Science Teaching (Secondary Mathematics NY); received \$7500 and a computer among many other gifts.
- 1993 First Runner-up for Teacher of the Year of New York State.
- 1993 Master Teacher in National Teacher Training Institute, sponsored by WNET, New York, NY, instructing teachers in educational uses of television and published five applications for the classroom.
- 1992 Pride of Ulster County award in recognition of coaching the New Paltz High School cross-country ski team to the section 9 championship.
- 1991 V.I.S.I.O.N. fellowship, sponsored by Hudson Valley (New York State) industries and SUNY New Paltz, NY, to integrate technology in mathematics and science education based in real-world applications; received \$3000 plus software and hardware.
- 1984 IBM Community Grant for setting up an electronics club, received \$ 1000.

Publications:

Books Edited and Authored

de Groot, C., Ed. (2000). *Best of Secondary Mathematics Exemplars*. Underhill, VT: Exemplars, Inc. (Published as a CD-ROM).

de Groot, C., Ed. (1999). *Exemplars Mathematics 9-12, Module 3*. Underhill, VT: Exemplars, Inc.

de Groot, C., Ed. (1996). *Exemplars Mathematics 9-12, Module 2*. Underhill, VT: Exemplars, Inc.

de Groot, C., Ed. (1995). *Exemplars Mathematics 9-12, Module 1*. Underhill, VT: Exemplars, Inc.

Papers

Adding Value: Partnering the Learning of Preservice and Inservice Teachers in an MST-focused University-School Partnership (2009). Paper co-presented with Dr. Aaron Isabelle at the 2009 International Conference of the Association for Science Teacher Education (ASTE), Hartford, Connecticut.

Connecting Mathematics, Science, and Technology in Partnership: Making Teacher Education Real (2007). Paper presented at the School, Science, and Mathematics Association 2007 Convention, Indianapolis, IN.

The Itakura Method: Elementary Pre-Service Teachers' Retention of New Concepts in Heat Expansion. (2006). Paper presented at the School, Science and Mathematics Association 2006 Convention, Missoula, MT.

Realistic Teacher Education in the Netherlands: Realistic for the United States? (2006). Paper presented at the NCTM Annual Meeting and Exposition, St. Louis, MO.

Realistic Teacher Education in the Netherlands: Realistic for US? (2005). Paper presented at the 104th annual meeting of the Society for School Science and Mathematics Association, Fort Worth, TX.

Alternate Conceptions of Pre-service Elementary Teachers: The Itakura Method (2004). Paper co-presented with Dr. Aaron Isabelle at the 103rd annual meeting of the Society for School Science and Mathematics in Atlanta, GA.

Connecting Math, Science, and Technology in Elementary Education: What We Have Learned (2003). Co-presented with Dr. Karen Bell at the 102nd annual meeting of the Society for School Science and Mathematics in Columbus, OH.

Reciprocal concepts as a guiding principle for Connecting Mathematics, Science, and Technology (2002). Co-presented with Dr. Karen Bell at the 101st annual meeting of the Society for School Science and Mathematics in Rochester, NY.

Collaborating for Institutional and Individual Growth: Transcending the Boundaries. (2002). Co-presented with Dr. Rose Rudnitski and Dr. Margaret Ferrara. Annual Meeting of the American Education Research Association, New Orleans, Louisiana.

Reaching for Teacher Ownership of State-Mandated Assessments (2002). Paper co-presented with Dr. Pearl Solomon and Robert Searson of St. Thomas of Aquinas

College. Annual Meeting of the American Education Research Association, New Orleans, Louisiana.

The New Three R's: Rigor, Research, and Reflection (2002). Paper presented at the Fifth Annual Mathematics Education Institute, New Mexico State University, Las Cruces, NM.

Building a Syllabus: Connecting mathematics, science and technology in elementary education (2001). Paper co-presented with Dr. Karen Bell at the 100th annual meeting of the Society for School Science and Mathematics in Chicago, IL.

Articles

de Groot, C. (2009). Go fly a kite! *Ontario Mathematics Gazette*, (in press, March).

de Groot, C., and A. Isabelle (2009). Adding value: Partnering the learning of preservice and inservice teachers. *Exelcior: Leadership in Teaching and Learning* (3), 2, 8-27.

Isabelle, A., and C. de Groot (2009). Leaves: Nature's solar collectors. *Science and Children*, National Science Teacher Association, (46), 6, 38-42.

Isabelle, A., and C. de Groot (2008). Alternate Conceptions of Pre-service Elementary Teachers: The Itakura Method. *Journal for Science Teacher Education*, (19), 417-435.

de Groot, C. (2008). Tangrams are not toys. *Ontario Mathematics Gazette*, (46), 3, 35-38. (Reprinted)

Drake, P., and C. de Groot (2007). What's your target? *New York State Mathematics Teachers' Journal* (57), 1, 29-33.

Moone, G., and C. de Groot (2006). Fraction action. *Teaching Children Mathematics*. Reston, VA: National Council of Teachers of Mathematics, (13), 5, 266-271.

de Groot, C., and T. Whalen (2006). Longing for Division. *Teaching Children Mathematics*, Reston, VA: National Council of Teachers of Mathematics, (12), 8, 410-418.

Moone, G., and C. de Groot (2005). Time is of the Essence. *Teaching Children Mathematics*, Reston, VA: National Council of Teachers of Mathematics, (12), 2, 90-98.

Drake, P., and C. de Groot (2005). Toeing the Line. *New York State Mathematics Teachers' Journal*, (55), 2, 37-40.

de Groot, C. (2003). From number to variable: Transition to algebraic factoring. *Ontario Mathematics Gazette*, (42), 1, 7-11.

de Groot, C. (2003). Place value and the elusive decimal point. *New York State Mathematics Teachers' Journal*, (53), 1, 37-40.

de Groot, C. (2002). Calculating with time: Linearize it! *New York State Mathematics Teachers' Journal*, (52), 3, 150-155.

de Groot, C. (2002). Tangrams are not toys. *Ontario Mathematics Gazette*, (40), 3, 28-31.

de Groot, C. (2001). From description to proof. *Mathematics Teaching in the Middle School*, (7), 4, 244-248.

de Groot, C. (2001). Marshmallow peeps: Fostering a K-12 connection. *New York State Mathematics Journal*, (51), 1, 23-29.

de Groot, C. (1999). Robert will not use manipulatives ... or will he? *New York State Mathematics Journal*, (49), 2, 85-93.

Articles Edited

Isabelle, A., and K. Bell (2007). Sun catchers. *Teaching Children Mathematics*. Reston, VA: National Council of Teachers of Mathematics, (13), 8, 414-423.

Moone, G., and C. de Groot (2006). Fraction action. *Teaching Children Mathematics*. Reston, VA: National Council of Teachers of Mathematics, (13), 5, 266-271.

Gebhard, G. (2006). A mathematics cornucopia of pumpkins. *Teaching Children Mathematics*. Reston, VA: National Council of Teachers of Mathematics, (13), 2, 68-78.

de Groot, C., and T. Whalen (2006). Longing for Division. *Teaching Children Mathematics*, Reston, VA: National Council of Teachers of Mathematics, (12), 8, 410-418.

Bell, K. (2006). Easy Parcheesi. *Teaching Children Mathematics*. Reston, VA: National Council of Teachers of Mathematics, (12), 6, 312-322.

Colomb, J., and K Kennedy (2005). Your better half. *Teaching Children Mathematics*. Reston, VA: National Council of Teachers of Mathematics, (12), 4, 180-190.

Moone, G., and C. de Groot (2005). Time is of the Essence. *Teaching Children Mathematics*, Reston, VA: National Council of Teachers of Mathematics, (12), 2, 90-98.

Sections contributed to other works

de Groot, C., & M. Torche, (1993). Pressure, what it Boyle's down to. In *National Teacher Training Institute for Math, Science, and Technology*, WNET, New York.

de Groot, C., & M. Torche, (1993). Up, down and all around. In *National Teacher Training Institute for Math, Science, and Technology*, WNET, New York.

de Groot, C., & M. Torche, (1993). Down to Earth. In *National Teacher Training Institute for Math, Science, and Technology*, WNET, New York.

de Groot, C., & M. Torche, (1993). Off the wall. In *National Teacher Training Institute for Math, Science, and Technology*, WNET, New York.

de Groot, C., & M. Torche, (1993). Tick tock, it looks like a clock. In *National Teacher Training Institute for Math, Science, and Technology*, WNET, New York.

de Groot, C., & M. Torche, (1993). Over the edge. In *National Teacher Training Institute for Math, Science, and Technology*, WNET, New York.

Selected Presentations, Workshops and Institutes:

International

Tangrams are Not Toys! (2002). Canadian Regional Meeting of the National Council for Teachers of Mathematics, Montreal, Canada.

For the Love of Effective Assessment (1998). Special Event Seminar, Regina, Saskatchewan, Canada.

National and Regional

Picture Perfect Squares (2008). Workshop for middle and high school teachers and teacher educators at the School Science and Mathematics 2008 Convention, Raleigh-Durham, North Carolina.

Picture perfect squares. (2008). Workshop for middle and high school teachers and teacher educators at the annual meeting of the Association of Teachers of Mathematics of New England, Portland, Maine.

Teaching geometry with plastic toys: straws and tangrams. (2007). Workshop for middle school and high school teachers and teacher educators at the School, Science, and Mathematics, Association 2007 Convention, Indianapolis, IN.

Bringing Mathematics into the World. (2006). Workshop for high school teachers at the Asia Society International Studies Schools Network 2006 Summer Institute. Washington, DC.

Reasoning with Plastic Toys. (2004). Presentation at the Southern Regional Meeting of the National Council of Teachers of Mathematics. New Orleans, Louisiana.

Building a Transition to Factoring Through Number Sense (2003). Presentation at the 81st Annual Meeting of the National Council of Teachers of Mathematics, San Antonio, Texas.

Exemplars National Institute on Performance Assessment (2001). Co-organized and conducted three-day mathematics performance assessment institute for about 80 teachers K-12. Denver, CO.

Robert will not use manipulatives...Or will he? (2000). Presentation at the National Council of Teachers of Mathematics Eastern Regional Conference. Springfield, Massachusetts

Launch, Explore, Summarize: What it looks like in a kindergarten classroom (2000). Presentation at the 78th annual meeting of the National Council of Teachers of Mathematics. Chicago, IL

Good problems solve all your problems (1999). Presentation at the National Council of Teachers of Mathematics Eastern Regional Conference, Pittsburgh, PA.

Contrasting mathematics curriculum reform in other countries: An international panel with members from Japan, Australia, the Netherlands and the United Kingdom (1999). Organized and moderated this panel session for the 77th annual meeting of the Council for Teachers of Mathematics, San Francisco, CA.

Re-emphasizing factoring: Connecting with number sense and pattern (1999). Workshop conducted at the 77th annual meeting of the Council for Teachers of Mathematics, San Francisco, CA.

How do we provide for a transition to more formal thought? The surprise is in the middle-level classroom (1997). Presentation at the National Council of Teachers of Mathematics Eastern Regional Conference, Long Island, New York.

Exemplars: Transforming assessment and instruction through performance tasks (1997). Workshop at 75th Annual Meeting of the National Council of Teachers of Mathematics, Minneapolis, Minnesota.

Changing practices require change in assessment: What does this look like and how do you grade it? (1997). Three-hour workshop at the National Council of Teachers of Mathematics Eastern Regional Conference, Rochester, New York.

Hands-on interactive classroom model for science and mathematics (1995). Presentation at the National Educational Computing Conference, Baltimore, Maryland.

State and Local

Using literary forms to analyze qualitative data (2007). Presentation at Ph.D. In Education Faculty Research Seminar, Rhode Island College.

Using computer based laboratories to teach secondary mathematics and science (2007). Guest lecture at SUNY New Paltz in the undergraduate course Science Seminar with Dr. Karen Bell.

Secondary Mathematics Exemplars Performance Assessment Workshop (2007). Workshop for high school teachers, staff developers, and principals of Region 9, New York, NY.

Using literary forms to analyze qualitative data (2007). Guest lecture at SUNY New Paltz in the graduate course Inquiry II with Dr. Sue Books.

Reconceptualizing supervision, reflection and practice in teacher education: A European perspective (2006). Presentation at the Teaching and Learning Center, State University of New York at New Paltz.

Caring males in education: A forum for men interested in elementary and early childhood education (2003). Organized and conducted with Dr. Leslie Couse. Mid-Hudson Teacher's Center, SUNY New Paltz, New Paltz, NY.

New York State K-8 Mathematics Mentor Network informational session (2003). Presentation at the Conference of the Association of Mathematics Teachers of New York State. Syracuse, NY.

Developmentally appropriate introduction to fractions (2003). Presentation at the Summer Conference of the Association of Mathematics Teachers of New York State. Potsdam, NY.

Using pastiche in qualitative research (2003). Guest lecture at New York University in the course Qualitative Research II with Dr. Margot Ely.

Tangrams are not toys! (2003). Presentation at the 28th Annual Ten County Mathematics Conference, North Salem, NY.

New York State K-8 Mathematics Mentor Network informational session (2002). Presentation at the Conference of the Association of Mathematics Teachers of New York State. Ellenville, NY.

Uses of literary forms in the representation of voice and analysis in qualitative research (2002). Sandwich Seminar at the School of Education, New Paltz, NY.

Launch, Explore, Summarize, an Inquiry Based model (2002). Guest lecture in Dr. Margaret Ferrara's graduate course, Models of Teaching, SUNY New Paltz, NY.

Collegial evening on connecting mathematics, science, and technology (2002). Co-presented with Dr. Karen Bell. Mid-Hudson Teacher Center, SUNY New Paltz, NY.

Manipulatives are not toys (2001). Workshop at the fall student teaching conference of the Department of Elementary Education, SUNY New Paltz, NY.

Tangrams are not toys! (2001). Presentation at the 51st Annual Conference of the Association of Mathematics Teachers of New York State. Rochester, NY.

New York State K-8 Mathematics Mentor Network informational session (2001). Presentation at the Conference of the Association of Mathematics Teachers of New York State. Rochester, NY.

Tangrams are not toys! (2001). Presentation at the 26th Annual Ten-County Math Conference. Monroe-Woodbury, NY.

Looking at results by key-ideas: A K-12 point of view (2000). Presentation at the Annual Conference of the Association of Mathematics Teachers of New York State, Ellenville, NY.

New York State K-8 Mathematics Mentor Network informational session (2000). Presentation at the Conference of the Association of Mathematics Teachers of New York State, Ellenville, NY.

New York State K-8 Mathematics Mentor Network: Want to join? (2000). Presentation at the MST 2000 Conference. Binghamton, NY.

What to do when children do not see a reason for using manipulatives (2000). Presentation at the 25th Annual Ten County Mathematics Conference, Arlington, NY.

Manipulatives in mathematics (2000). Presentation for Professional Mini-Conference in Elementary Education for Current and Former SUNY New Paltz Pre-service Teachers, SUNY New Paltz, NY.

Launch, Explore, Summarize: What does it look like in a Kindergarten classroom? (1999). Presentation at the 24th Annual Ten County Math Conference, Chappaqua, NY.

Good problems solve all your problems (1998). Workshop at the 48th Annual Meeting of the Association of Mathematics Teachers of New York State, Kiamisha Lake, NY.

Teaching fractions with the array model (1998). Workshop for the New York State K-6 Mathematics Mentors Fall Institute, Kiamisha Lake, NY.

Good problems solve all your problems (1998). Presentation at the 23rd annual Ten County Math Conference, Yonkers, NY.

Technology and performance assessment in mathematics (1995). Presentation at the 45th Annual Meeting of the Association of Mathematics Teachers of New York State, Rye, NY.

Making sure technology "pays off" with improved student performance (1995). Presentation at the 3rd annual Infinet 2000 Distance Learning Conference, Fishkill, NY.

Constructions: Interconnected learning experiences enriched through technology (1994). Presentation at 29th Annual Conference of the New York State Association for Computers & Technologies in Education, Uniondale, NY.

Making connections in high school mathematics using technology (1994). Presentation at the 44th Annual Meeting of the Association of Mathematics Teachers of New York State, Kiamesha Lake, NY.

Teaching transformation geometry using a simple CAD program (1992). Presentation at the 27th annual conference of the New York State Association for Computers & Technologies in Education, Ellenville, NY.

Recent School Based Work:

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| 2006 – 2007 | Mathematics, science, and technology partnership with Lenape elementary school, New Paltz Central Schools, New Paltz, NY: implementing principles of Realistic Teacher Education in site-based course and fieldwork with pre-service and in-service teachers. |
| 2006 – 2008 | Ongoing professional staff development in middle school mathematics to improve student achievement on state-wide assessments at Magen David Yeshiva, Brooklyn, NY. |
| 2006 – 2007 | Conducted a middle school/high school technology program audit for the Harrison Central School district, Harrison, NY. |
| 2006 – 2007 | Conducted an elementary school mathematics program audit for the Harrison Central School district, Harrison, NY. |
| 2006 | Mathematics and Cultural Artistic Visual Expressions, a curriculum unit design project I facilitated for a group of teachers from around the US from the Asia Society International Studies Schools Network. This unit focused on mathematics and Islamic art. Metropolitan Learning Center, Bloomfield, CT, July 23-28. |
| 2006 – present | Facilitated the development of Applied Mathematics curricular strands with high school teachers from the Harrison Central School District, Harrison, NY, June 27-29. |
| 2005 – 2006 | Conducted a middle school mathematics program audit for the Harrison Central School district, Harrison, NY. |
| 2004 – 2008 | Ongoing professional development workshops/seminars related to K-12 mathematics curriculum, assessment, and instruction for teachers and administrators for Southern Westchester BOCES, Elmsford, NY. |
| 2004 – present | Ongoing professional development workshops/seminars and lesson studies related to K-12 mathematics and technology curriculum, assessment, and instruction in the Harrison Central School District, Harrison, NY. |
| 2004 – 2005 | Conducted a high school mathematics program audit for the Harrison Central School district, Harrison, NY. |
| 2003 – 2006 | Ongoing professional development workshops/seminars and lesson studies related to K-12 mathematics curriculum, assessment, and instruction in the Port-Chester Rye Unified School District, Port-Chester, NY. |

- 2003 – 2005 Mathematics, science, and technology partnership with Ellenville elementary school, Ellenville Central Schools, Ellenville, NY: implementing principles of Realistic Teacher Education in a site-based course and fieldwork with pre-service and in-service teachers.
- 2002 – 2005 Ongoing professional development workshops/seminars related to K-8 mathematics curriculum, assessment, and instruction in the Ellenville Central School District, Ellenville, NY.
- 2001 – 2005 Ongoing professional development workshops/seminars and lesson studies related to curriculum and instruction with grade 6-8 teachers at Copper Beech Middle School, Brush Oak, NY.
- 2001 – 2004 Ongoing professional development workshops/seminars related to curriculum and instruction with grade 6-8 teachers at Pierre van Cortlandt Middle School, Croton-Harmon, NY.
- 2003 *Using Mathematics Rubrics in all Disciplines*. A day-long workshop at Minuteman Technical Vocational Regional High School, in Lexington, Mass.
- 2003 *Using Geometer's SketchPad software in the secondary mathematics classroom*. A one-day workshop at Pearl River High School, Pearl River, NY.
- 2001 – 2002 *Curriculum Alignment and Gap Analysis*. Three one-day workshops for Teachers of grades 1-8. Rockland County BOCES, West Nyack, NY.

Recent Service:

- 2008 – present Member of the Graduate Team for School of Education at URI.
- 2007 – 2008 Data Analyst for NCATE accreditation for the School of Education at SUNY New Paltz, New Paltz, NY. (Appointed position.)
- 2007 – 2008 Higher Education Liaison for Hudson Valley Regional Math Council, a regional arm of the New York State Mathematics Resource Center.
- 2007 (spring) Interim Coordinator of NCATE for the School of Education at SUNY New Paltz, New Paltz, NY. (Appointed position.)
- 2006 – 2008 Invited by New York State Education Department to serve on the Advisory Committee to guide the development and implementation of the New York State Mathematics Resource Center for staff development K-12 (three-year term).
- 2006 – present Elected member to the Board of Directors of the School Science and Mathematics Association (three-year term), a national organization dedicated to the integration of mathematics and science.
- 2006 – present Chair of the Nomination and Election Committee for the School Science and Mathematics Association.
- 2006 – 2007 Chair of three search committees (literacy, social studies, and science) for the Department of Elementary Education, SUNY New Paltz.
- 2005 – present Member of Proposal Review Committee of the School Science and Mathematics Association.

- 2004 – 2006 Editor for the Investigations Department of *Teaching Children Mathematics*, volume 12 and 13, a publication for grades K – 6 of the National Council for Teachers of Mathematics.
- 2004 – 2005 Served as one of four statewide recognized expert reviewers for the revised K-12 mathematics standards for the New York State Education Department.
- 2004 – 2007 Invited member of the Math Science Technology Partnership Advisory Board of a National Science Foundation funded project at Hofstra University.
- 2004 – 2005 Chair of a search committee for an assistant professor in elementary education with a specialization in mathematics, science, and technology.
- 2004 – 2008 Member of the Institutional Review Board at SUNY New Paltz.
- 2003 – 2006 Member of the Coordinating Council for Assessment in the School of Education at SUNY New Paltz.
- 2003 – 2008 Reviewer of article manuscripts for the Association of Mathematics Teachers of New York State mathematics journal.
- 2003 Reviewed the book manuscript *Teaching and Learning Mathematics in the Middle Grades* for Key College Publishing, published in 2004. Part of my review is quoted in promotional materials.
- 2002 – 2005 Member of the Board of Directors for the Association of Mathematics Teachers of New York State, College Representative. This is an elected position for three years.
- 2002 – 2005 Member of the Endowment and Award Committee for the School, Science, and Mathematics Association, a national organization with a focus on the integration of mathematics and science.
- 2002 – 2004 Member of the SUNY-wide Provost Task Force on Mathematics Education.
- 2002 Member of sub-committee of the Education Council on Assessment. We organized an event related to assessment and standardized testing attracting professionals from the region.
- 2002 Invited to participate in a two-day New York State Mathematics Education Summit organized by the State Education Department.
- 2001 – 2003 Member of the NCATE sub-committee on Assessment Systems for the Professional Education Unit, co-writer of the Assessment Plan, and Liaison to the Standard 3 Committee.
- 2001 – 2003 Work related to NCATE accreditation. Wrote a program review of a graduate program in the Department of Elementary Education at SUNY New Paltz and wrote a pre-condition on institutional assessment for the School of Education at SUNY New Paltz. Attended an NCATE orientation conference in August 2001 in Washington, DC.
- 2001 – 2002 Member of the Task Force for setting Technology Standards for Teachers, Dutchess BOCES, Poughkeepsie, NY.
- 2001 – present Reviewer of manuscripts for Key-Curriculum Press, College Division.
- 2001 Grant Reviewer for the Goals 2000 Strategy 2 Grant at the Mid-Hudson regional Support Center of Orange/Ulster Board of Cooperative

- Educational Services, Monroe, NY.
- 2000 Reviewed a manuscript of Dr. Pearl Solomon, *The Math we Need to 'Know' and 'Do.'*, published by Corwin Press, 2001. My contributions were acknowledged in the preface. I am also quoted on the back-cover of the book.
- 1999 – 2001 Co-chair of the department professional semester student teaching mini-conference committee. Developed one-day conferences for all student teachers in the department each semester.
- 1999 – 2001 Elected member to the board of directors of the Ten County Mathematics Education Association, New York State. Served as program co-chair.
- 1999 – 2002 Wrote programs of the Department of Elementary Education for re-registration with the New York State Department of Education, in particular the Environmental Education specialization for graduate students and the graduate program Masters in Science for Teachers, geared toward students who do not have an undergraduate degree in education.
- 1999 – 2000 Wrote two new 6-credit courses connecting mathematics, science and technology; one at the graduate and one at the undergraduate level; these courses have been approved by faculty governance
- 1999 – 2008 Director of New York State K-8 Mathematics Mentor Network, a formerly DDE Title IIA Higher Education funded project and currently funded under the Leave No Child Behind, Title IIA Higher Education funding.
- 1998 – 2002 Member of the statewide Mathematics, Science, and Technology Network, State Education Department, Albany, NY.
- 1998 – 2008 Advisement of approximately 50 graduate students. Advisor and coordinator of the Math, Science, and Technology and Environmental/Outdoor Education specializations in the MS-Ed program in Elementary Education.
- 1998 – 2008 Voting member of the following committees: departmental committee of the whole; departmental and interdepartmental search committees; departmental professional semester student teaching mini-conference committee; department committee on tenure and reappointment; the dean's school of education advisory committee on diversity; the dean's Excellence in Teaching Award committee; Education Council of the School of Education (a policy setting council); workload committee (sub-committee of Education Council); campus-wide organization committee (worked on revising the by-laws of faculty governance); campus-wide technology committee, campus-wide Student Computer Access Program committee; Institutional Review Board.
Chair of the following committees: departmental search committees; departmental committee for tenure and reappointment; departmental committee for promotion and discretionary salary increase.
- 1995 – present Editor for Secondary Mathematics Exemplars.

- 1998 – 2000 Member of the Ulster Board of Cooperative Educational Services distance learning action task force, New Paltz, NY; advised on issues of curriculum and pedagogy in distance learning.
- 1998 – 2000 Member of the Highland Central School District professional development plan team, Highland, NY, advised on issues of long-term professional development planning for the district.
- 1997 – 1999 Member of the Task Force for Critical Communication, National Council of Teachers of Mathematics, Reston, VA. Co-wrote several informational pieces related to calculators and basic facts, published by the NCTM as *Straight Talk*, available on the NCTM website.

Memberships

National Council of Teachers of Mathematics (Communication Task Force 1997-1999; Editor Investigations Department Volume 12 and 13)
 School Science and Mathematics Association (Board of Directors 2006-2009, Chair Nominations and Elections Committee 2006-2009)
 National Science Teachers Association
 Association of Mathematics Teacher Educators
 Rhode Island Mathematics Teachers Association

Work in Progress

De Groot, C., and A.D. Isabelle. *The Itakura method: Retention and implementation beyond course work for elementary teachers*. This is a study proposal that has been approved by the SUNY New Paltz Institutional Review Board, which we implemented in the spring of 2008. This study is a follow-up on Isabelle, A., and C. de Groot (2007), Alternate conceptions of pre-service elementary teachers: The Itakura method. *Journal for Science Teacher Education* (in press). We surveyed students who have graduated in the past three years for their potential use of the Itakura method and their retention of a concept that was taught to them using this method in our methods course. Currently we are analyzing data.

Fink Chorzempa, B., Isabelle, A.D., and C. de Groot. *Our Quest for Mutualism in University-School Partnerships*. This manuscript has been submitted to the journal *Childhood Education* in September 2008. In this article we describe our on-site work with connected pre-service and in-service teachers in three different schools. We identify the learning that happened at all levels, students, pre-service teachers, in-service teachers, and college professors. We especially highlight the learning and achievement of the children in the schools in the areas of mathematics, science, and English language arts.

De Groot, C., and A. Isabelle. *Experiences of pre- and inservice teachers in a school-university partnership centered on inquiry*.

This interview study is a follow-up on a prior study (de Groot, C., and A. Isabelle (2009). Adding Value: Partnering the Learning of Preservice and Inservice Teachers.

Exelcior: Leadership in Teaching and Learning). Through semi-structured interviews we investigate the experiences of preservice and inservice teachers in a school university partnership centered on inquiry.

Translating into English many of the resources I brought from the Netherlands where I studied Realistic Teacher Education and Realistic Mathematics Education during my sabbatical leave in the spring of 2006. I use these materials in my courses (see below) and with my colleagues to take a critical perspective toward current practices.

Courses Taught

Middle School:

Grade 7-9 mathematics, the Netherlands

High School:

From General Mathematics to AP-Calculus (AB and BC).
Chemistry and Physics.

University:

College Algebra

Introduction to Modern Mathematics

Assessment and Curriculum in Secondary Mathematics (graduate)

Advanced Educational Technology (graduate)

Teaching Mathematics in the Elementary School (undergraduate)

Student Teaching Supervision and Field Work Supervision

Connecting Mathematics, Science, and Technology in the Elementary School
(undergraduate and graduate initial certification programs)

Workshop in the Teaching of Mathematics (graduate)

Action Research I and II (graduate)

EDC430 Methods and Materials of Secondary Education: Mathematics

EDC431 Practicum in Secondary Teaching: Mathematics

EDC 371 Educational Measurement