
CURRICULUM VITAE
J. STEVE OLIVER

Professor

Department of Mathematics and Science Education
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Professional Preparation

North Carolina State University	Zoology	B.S. 1977
North Carolina State University	Science Education	B.S. 1977
North Carolina State University	Science Education	M.S. 1983
The University of Georgia	Science Education	Ph.D. 1986

Academic Positions:

Professor, Department of Mathematics and Science Education, The University of Georgia (UGA), August 2008 -- present
Associate Department Head and Science Education program coordinator, UGA, January 2006 – December, 2011.
Associate Professor, Department of Mathematics and Science Education, UGA, September, 1994 – May, 2008
Graduate Coordinator, Department of Science Education, UGA, September 1991 – August, 1997
Assistant Professor, Department of Science Education, UGA, September, 1990 – August, 1994
Assistant Professor, Department of Curriculum and Instruction, Kansas State University, August, 1986 – July, 1990
Science Department Chairperson and Physical Science Teacher, East Cary Junior High School, Wake County Public Schools, Raleigh, N.C., August, 1980 - June, 1981
Science Teacher, West Caldwell High School, Caldwell County Public Schools, Lenoir, N. C., December, 1977 - June, 1980.

RESIDENT INSTRUCTION AND CONTINUING EDUCATION

Examples of Courses taught at The University of Georgia (since the shift from the quarter system to the semester system): 1998 - present

ESCI 4100, Laboratory Teaching in Science
ESCI 4450/6450, Secondary Science Curriculum
ESCI 4460/6460, Secondary Science Teaching Methods
ESCI 5460/7460, Supervision of Student Teachers
ESCI 5480/7480, Philosophy and Leadership in Science Classroom Practice
ESCI 7040, Instructional Strategies in Secondary Science
ESCI 7080, Secondary Science Curriculum
ESCI 9020, History and Theory of Science Education
ESCI 9630, Critique of the Literature in Science Education

Membership in professional societies

American Educational Research Association
Association for Science Teacher Education
Georgia Science Teachers Association
School Science and Mathematics Association
Southeastern Association for Science Teacher Education
National Science Teachers Association
National Association for Research in Science Teaching

SCHOLARLY ACTIVITIES (indicates refereed publication)**

a. Selected Recent Publications

Recent Chapters in Books:

- Oliver, J. S. (2015). Dr. Norman D. Anderson: Mentor, Science Teacher, and Author. In J. E. Pedersen, K. Finson, & B. Spector (eds). *Going Back for Our Future II: Carrying Forward the Spirit of Pioneers of Science Education*. Information Age, Charlotte, NC
- **Oliver, J. S., & Hodges, G. W. (2014). Rural Science Education: New ideas, redirections, and broadened definitions. (p. 266-283). In: Lederman, N. L., & Abell, S. K. (eds.) *Handbook of Research in Science Education: Volume II*. New York: Taylor Francis/Routledge.
- **Miller, K. R., & Oliver, J. S. (2014). Teaching Non-majors Biology as Inquiry: The development of Biology GLA's Conceptualizations of teaching science as inquiry. In Sunal, D. W., Sundal, C. S., Wright, E. L., Mason, C. L., & Zollman, D (eds.). *Research in Science Education: Research Based Undergraduate Science Teaching*. Charlotte, NC: Information Age Publishers.
- **Oliver, J. S. (2009). Field Experiences: Enacting Secondary Science Teacher Education. In Collins, A., & Gillespie, N. (Eds.). *The Continuum of Secondary Science Teacher Preparation*. (p. 49-62). Rotterdam: Sense Publishers.
- **Oliver, J. S. (2007). Rural science education. In S. Abell, S. & N. Lederman (Eds.), *Handbook on Research on Science Education* (p. 345-369). Mahwah, NJ: Lawrence Erlbaum.
- **Simpson, R. D., Koballa, T. R., Oliver, J. S., & Crawley, F. E. (1994) Affective dimensions in science education (p. 211 – 234). In D. Gabel (Ed.), *Handbook of Research on Science Teaching and Learning*. New York: Macmillan & Co.

Monographs:

- Graham, P., Oliver, J. S., & Oppong, N. (2005). *An interdisciplinary study of teacher change and its impact on students' learning*. Chicago: National Board for Professional Teaching Standards. Published August 2005 at <http://www.nbpts.org/>
- Horn, J. G., Oliver, J. S., & Stufflebeam, D. (2000). *A case study of Cocke County (TN) Schools: A report of the evaluation of the Appalachian Rural Systemic Initiative*. Technical report prepared for the NSF. Kalamazoo: The Evaluation Center, Western Michigan University.
- Russon, C., Horn, J. G., and Oliver, J. S. (2000). *A case study of the Gila River Indian Community (AZ) and its role as a partner in the NSF -support UCAN Rural Systemic Initiative*. Technical report prepared for the National Science Foundation. Kalamazoo: The Evaluation Center, Western Michigan University.

Recent Refereed Journal Articles:

- **Oliver, J.S., Hodges, G. W., Moore, J. N., Cohen, A., Jang, Y., Brown, S. A., Kwon, K. A., Jeong, S., Raven, S. P. Jurkiewicz, M., & Robertson, T. R. (in press). Supporting high school student accomplishment of biology content using interactive computer-based curricular case studies. *Research in Science Education*.
- **Ntemngwa, C. & Oliver, J. S. (in press). The Development and Implementation of Integrated Science, Technology, Engineering and Mathematics (STEM) Instruction in the Middle School Science Classroom. *International Journal of Education in Mathematics, Science and Technology*.
- **Kim, YA, & Oliver, J. S. (in press). Support Pre-service Teachers' Use of Modeling: Building a Water Purifier. *Innovations in Science Teacher Education*.
- **Oliver, J. S. (2015). High school student accomplishment of cellular biology content using 3-D computer-based modules. Published in the *Proceedings of the Korean Association for Science Education (KASE)*, Feb 2015.
- **Miller, K. R., Brickman, M., & Oliver, J. S. (2014). Enhancing Teaching Assistants' (TAs) inquiry teaching by means of teaching observations and reflective discourse. *School Science and Mathematics*, 114(4), 178-190.
- **Hodges, G. W., Oliver, J. S. & Tippins, D. (2013). A Study of Highly Qualified Science Teachers' Career Trajectory in the Deep, Rural South: Examining a Link between Deprofessionalization and Teacher Dissatisfaction. *School Science and Mathematics*, 113(6), 263-274.
- **Song, Y., Ahlswede, D., Clausen, C., Herbig, L., & Oliver, J. S. (2010). Community-Based Inquiry Lessons: Building a research community in the high school science classroom, *The Science Teacher*, 77(3), 24-28.
- Oliver, J. S. & Moore, J. N. (2009). Learning Biological Processes through Animations: A New Approach. Science Education Partnership Award – SEPA newsletter, August 2009, #6, pp. 5-6.
- **Park, S. H., & Oliver, J. S. (2009) The role of gifted students in the development and elaboration of teachers' PCK. *Journal of Science Teacher Education*, 20(4), 333-351.
- **Park, S. H., & Oliver, J. S. (2008). Reconceptualization of Pedagogical Content Knowledge (PCK): PCK as a Conceptual Tool to Understand Teachers as Professionals. *Research In Science Education*, (published on-line June 16, 2007) 38(3), 261-284.
- **Wang, J.J., Oliver, J. S., & Staver, J. R. (2008). Self-Concept and Science Achievement: Investigating a reciprocal relation model across the gender classification. *Journal of Research in Science Teaching*. (published online – December 18, 2006),45(6), 711-725.
- **Park, S. H., & Oliver, J. S. (2008). National Board Certification (NBC) as a Catalyst for Teachers' Learning about Teaching: The Effects of NBC Process on Candidate Teachers' PCK Development. *Journal of Research in Science Teaching*, (published online – July 31 2008), 45(7), 812-834.
- **Park, S. H., Oliver, J. S., Johnson, T. S., Graham, P., & Oppong, N. (2007). Colleagues' Roles in the Professional Development of Teachers: Results from a Research Study of National Board Certification. *Teaching and Teacher Education*, 23(4), 368-389.
- **Oliver, J. S. (2007). (invited) Rural science education research and the frameworks that give it form. *The Rural Educator*. 28(3), 1-3.
- **Wang, J.J., Smith, T. W., & Oliver, J. S. (2007). An empirical examination of gender

- stereotype from the result of national board certification. *Teacher Education and Practice*, 19(3), 365-379.
- **Scott, A. K., Oliver, J. S., & Knauff, D. A. (2007). Examining the impact of service-learning on college science students self-report of their learning. *North American Colleges and Teachers of Agriculture Journal*, 51(3), 2-9.
- **Park, S.H., Lee, S.Y., Oliver, J. S., & Cramond, B. (2006). Changes in Korean science teachers' perceptions of creativity and science teaching after participating in a professional development program. *Journal of Science Teacher Education*, 17(1), 37-64.
- **Scott, A. K., Oliver, J. S., & Knauff, D. (2005). Service learning and science: A successful model. *Academic Exchange Quarterly*, 9(1), 222-228.
- **Johnson, T., Bruce, M., Graham, P., Oliver, J. S., Oppong, N. (2005) Giving Tree Teachers: Women and the National Board Certification Process. *Feminist Teacher*, 15(3), 234-249.
- **Wallace, C. S., & Oliver, J. S. (2003). Journaling during a school-based secondary methods course: Exploring a route to teaching reflection. *Journal of Science Teacher Education*, 14(3), 161-176.
- Oliver, J. S. (2003). Teacher Tip – (exploring the claim by the Raelians that a baby has been cloned), *Time* (online), <http://www.time.com/time/classroomarticle/0,12422,404289,00.html>
- **Oliver, J. S., & Nichols, B. K. (2001). The Method of Science in the Middle of the Century. *School Science and Mathematics* (invited article celebrating the centennial of the School Science and Mathematics Association), 101(7), 390-396.
- **Oliver, J. S., Jackson, D. F., Chun, S., Tippins, D. J., Leonard, R., Kang, N.H., Rascoe, R., & Kemp, A. (2001). The concept of scientific literacy: A view of the current debate as an outgrowth of the past two centuries. *Electronic Journal of Literacy through Science*, http://ejlts.ucdavis.edu/archives/scientific_literacy/oliver.htm.
- **Oliver, J. S., & Nichols, B. K. (2001). Intellectual Independence as a Persistent Theme in the Literature of Science Education: 1900-1950. *School Science and Mathematics* (invited article celebrating the centennial of the School Science and Mathematics Association), 101(1), 49-56.
- **Kelkar, H. S. Griffith, J., Case, M. E., Covert, S., Hall, R. D., Keith, C., Oliver, J. S., Orbach, M. J., Sachs, M. S., Wagner, J., Weise, M. J., Wunderlich, J., & J. Arnold. (2001). The *Neurospora crassa* Genome: Cosmid Libraries Sorted by Chromosome, *Genetics*, 157(3), 979-990.
- **McGinnis, J. R. & Oliver, J. S. (1998). Teaching about sound: A select historical examination of research. *Science and Education*, 7, 381-401.
- **Butts, D. P., Jackson, D. F., Oliver, J. S., Butts, D. P., Bellamy, M. L., & Frame, K. (1997). An evaluation study of the teaching of hands-on investigative biology in high schools on a shoestring", *Education*, 118(1), 133-144.
- **Wang, J., Oliver, J. S., & Lumpe, A. T. (1996). The relationship of student attitudes toward science, mathematics, English and social studies in U.S. secondary schools. *Research in Schools*, 3(1), 13-21.
- **Baird, W. E., Prather, J. P., Finson, K. D., & Oliver, J. S. (1994). Rural secondary science teachers' perceived needs: A multi-state survey. *Science Education*, 78(6), 555-574.

Examples of Journal Articles written as Department Editor: (55 total columns written for the Early Days column between 1989 and 2002, first 38 single authored by J.S. Oliver and last 17 co-authored with B.K. Nichols)

- Oliver, J. S., & Nichols, B. K. (2002). Metrics revisited. *School Science and Mathematics*, 102(2), 94-97.
- Oliver, J. S., & Nichols, B. K. (2001). Paul Hurd and the Educational Concepts of Secondary School Science Teachers. *School Science and Mathematics*, 101(8), 452-455.
- Oliver, J. S., & Nichols, B. K. (2000). The genie can never be returned to his prison. *School Science and Mathematics*, 100(4), 216-220.
- Oliver, J. S., & Nichols, B. K. (2000). Examinations appear to be a necessary evil. *School Science and Mathematics*, 100(2), 105-108.
- Oliver, J. S., & Nichols, B. K. (1999). Cosmetics, pets, politics, and science education. *School Science and Mathematics*, 99(2), 102-104.
- Oliver, J. S., & Nichols, B. K. (1999). Exploring the middle years. *School Science and Mathematics*, 99(3), 148-150.
- Oliver, J. S., & Nichols, B. K. (1999). Further exploration of the middle years. *School Science and Mathematics*, 99(5), 216-218.
- Oliver, J. S., & Nichols, B. K. (1999). The alarming threat to the welfare of our children. *School Science and Mathematics*, 99(8), 457-459.

Examples of Other Publications:

- Oliver, J. S. (2009). A review of: The culture of science education: Its history in person. *Science Education*, 93(2), 386-388, published on-line Nov. 10, 2008.
- Howe, J., Oliver, J.S., Oliver, J.P. Ross, S., Silcox, T. & Tanner, K. [authors alphabetical] (2006). *The Relay and the Race*. [Stage Play]. (Available from Loran Smith Center, The American Cancer Society, Athens, GA) performed spring 2006 at the Steeny-Stoval Auditorium, Athens, GA.
- Oliver, J. S., Knauff, D., & Gay, S.K. (Eds.) (2006). Lessons from *Science Behind our Food* (second edition), a curriculum collection of 160 secondary science activities, published on CD and distributed to 2000 science teachers.
- Oliver, J. S., Knauff, D., & Gay, S.K. (Eds.) (2005). Lessons from *Science Behind our Food*, a curriculum collection of 120 secondary science activities, published on CD and distributed to 1000 science teachers.

Recent Examples of Creative Contributions Other Than Formal Publications:

- Invited Seminar, *A conceptual model for understanding how PCK changes in science teachers*, Ewha Womans University, Seoul, South Korea. Dec 13, 2016.
- Invited Keynote address, Korean Association for Science Education, Pusan National University, Pusan, South Korea, Feb 5 – 7, 2015.
- Seminar, *Science Education Research*, West Visayas State University, Iloilo City, Philippines. August 15, 2014.
- Invited Keynote Address, Global Research Conference Across Disciplines, West Visayas State University, Iloilo City, Philippines. August 13, 2014.
- Teacher Workshop, *Using interactive computer-based modules to teach the topics of osmosis, diffusion and filtration in Biology*. Pusan National University, Pusan, ROK. August 8, 2014.

Invited speaker, *High School Student Learning of Biology content using Interactive 3-D Computer-based modules*, Ewha Woman's University, Seoul, ROK. August 6, 2014.

Journal club seminar leader – Undergraduate Biology Education Research (UBER) – July 17, 2014

Invited presentation: Deep approaches to learning science. Undergraduate Biology Education Research (UBER) seminar, June 24, 2014.

Indiana State University, Terra Haute, IN. *Constructing and Evaluating Innovative Curriculum Materials: Animations, Inquiry, and Interactivity*. Invited speaker, March 30, 2012

Invited speaker, Middle Tennessee State University, Murfreesboro, TN. *Constructing and Evaluating Innovative Curriculum Materials: Animations, Inquiry, and Interactivity*. December 1, 2011

Invited speaker, Ewha Woman's University, Seoul, ROK. *Constructing and Evaluating Innovative Curriculum Materials: Animations, Inquiry, and Interactivity*. Global Initiatives in STS Education, November 1, 2011.

Invited speaker, Seoul National University, Seoul, ROK. *Constructing and Evaluating Innovative Curriculum Materials: Animations, Inquiry, and Interactivity*. International Science Education Festival, October 31, 2011.

Invited speaker, Capitol Normal University, Beijing, PRC. Lectures October 2010, Science Teacher Education in the United States; Research on Teacher Knowledge in Science Classrooms; and Creating Animations for Teaching Students about Biology and Inquiry.

Interviewed regarding the shortage of science teachers in Georgia, for *the Georgia Gazette*, Georgia Public Broadcasting, Feb, 2009.

Workshop co-organizer with Alan Stewart, Teaching Teachers to use the Master of Disaster curriculum materials, in cooperation with the American Red Cross chapter, Athens, GA. June 9 – 13, 2008 and again on June 15 – 19, 2009

Working group leader, *The Knowles Science Teacher Preparation Conference*, Wingspread Conference Center, Racine, WI. September 19 – 21, 2006

Workshop organizer and convener, *Current Issues and Trends in Science Education*, an institute for the faculty and students visiting from Kasetsart University, Bangkok, Thailand. May 5 – 12, 2006

Workshop session, *Nature of Science in Science Teaching*, with Molly Lawrence, during Current Issues and Trends in Science Education, an institute for the faculty and students visiting from Kasetsart University, Bangkok, Thailand, May 2006.

Workshop session, *Service Learning and Project Focus*, with Anna Scott, during Current Issues and Trends in Science Education, an institute for the faculty and students visiting from Kasetsart University, Bangkok, Thailand, May 2006

Short Course, *The History of U. S. Science Education: From the Enlightenment to the present day*. Kasetsart University, Bangkok, Thailand. December 5 through December 9, 2005.

Workshop, *Toward a Transformative Vision of Science Teacher Education in the 21st Century*, West Visayas State University, Iloilo City, Philippines, March 3, 2005. Specific presentation within the workshop title: *Colleagues' Roles in Professional Development of Teachers: The Results of NBPTS Research Project*

Short course co-leader, *The Science Behind Our Food Goes to Costa Rica*, July 5 - 16, 2004. (Teachers and doctoral students who are part of the NSF funded project visited a large number of sites in Costa Rica to study the relationship of agriculture and ecology in the tropics.)

Seminar (as a visiting scholar), North Carolina State University, Raleigh, NC, Seminar – “Considerations on the Next Generation of Biology Curricula,” May 2004.

Workshop, *Developing a 3 day lesson plan for teaching Newton’s Second Law of Motion*. Conducted for the fellows of the Knowles Science Teaching Foundation, Madison, WI, August 1-3, 2003.

Workshop, *An introduction to the Science behind Our Food* – 3 week workshop which included a one week trip to Tifton and Griffin experiment stations. July 2003.

Seminar (Visiting Scholar), California State University – Bakersfield, “Building a Professional Community around Teacher Education,” March 2003.

Workshop – *Resources of Agriculture for Teaching Science*, 3 week workshop for teachers in Georgia. Included 1 week field trip to visit 3 Agriculture experiment stations (Tifton, Griffin, and Dearing). July 2002.

Recent Grants Received: (6 grants received [as PI or co-PI] prior to 2000 have a total dollar amount of \$1,199,788 received from funding agent; since 2000 grants received as PI or co-PI total dollar amount of \$4,441,941; career total **\$5,641,729** received from funding agent [does not include cost share])

February, 2014, Amount \$6000 (with David F. Jackson, co-PI). Funded by the Instructional Innovation Grants program, College of Education, UGA.

November, 2014, Amount \$1,135,627. (submitted) Oliver, J.S. (PI), Alvermann, D., & Rieber, L. *PersuadeMe: Promoting and Preparing Students for STEM Careers*. Submitted to the NSF ITEST program.

March, 2013, Amount \$38,000. Rapp, J., Latimer, A., Doney, P., & Oliver, J. S. *Biotechnology Laboratory Training and Classroom Outreach in Georgia Schools*, Improving Teacher Quality grants program, U. S. Department of Education.

March, 2012, Amount \$37,388. Rapp, J., Latimer, A., Doney, P., & Oliver, J. S. *Biotechnology Laboratory Training and Classroom Outreach in Georgia Schools*, Improving Teacher Quality grants program, U. S. Department of Education.

November, 2011, Amount \$14,879. Stanger-Hall, K., Moore, J., Roberston, T., & Oliver, J.S. (co-PIs). LTG: Testing interactive e-case studies for Learning of Biology. Funded by the Committee for Applied Instructional Technologies (CAIT). UGA

August, 2011, Amount \$9,000. Shen, J., & Oliver, J. S. (co-PI). *Developing a Transformative Knowledge System (TKS) for Preservice Science Teachers*. Funded by UGA Office of STEM Education.

August, 2011, Amount \$540,000. Robertson, T. R (PI). Oliver is a faculty associate. SYNAPSE – funded by the NCRR – NIH fund for Small Business Innovation and Research grants.

March, 2010, Amount \$40,000. Rapp, J, Latimer, A., Oliver, J. S. (co-PI). *Biotechnology Laboratory Training and Classroom Outreach in Georgia Secondary Schools*. Funded by the Title II Higher Education program: Improving Teacher Quality Grants.

March, 2009. Amount \$ 40,000. Oliver, J. S. (PI) with Williams, B., & Riley, J. F. *Science Education and Applied Research in Coastal Habitats (SEARCH)*. Funded by the Title II Higher Education program: Improving Teacher Quality Grants

March, 2009. Amount \$33,255. Stewart, A. K., & Oliver, J. S. (co-PI). Teaching science teachers about *Masters of Disaster*. Funded by the Title II Higher Education program: Improving Teacher Quality Grants (second year of two year project).

October, 2008 and September, 2009. Amount \$889,955(initial grant plus supplement). Mewborn,

- D. S. (Project Director) & Oliver, J.S. (co-PI). *Capitalizing on Talent: The Noyce Fellows Program at the University of Georgia*. Funded by the National Science Foundation (NSF).
- September, 2008. Amount \$1,296,673. Oliver, J. S. (Principal Investigator), Moore, J. N., Brown, S., Ward, C., & Robertson, T. (Co-PIs). *Learning Biological Process through Animations and Inquiry: A new approach*. Funded by the Science Education Partnership Award program of the National Institutes of Health (NIH).**
- March, 2008. Amount \$33,255. Stewart, A. K., & Oliver, J. S. (co-PI). Teaching science teachers about *Masters of Disaster*. Funded by the Title II Higher Education program: Improving Teacher Quality Grants.
- March 2006. Amount \$41,217. Oliver, J. S. and Hembree, P. (Project Directors) *S.A.P.E.L.O. Scientists and Professional Educators Learning Outdoors*. Funded by the Title II Higher Education program: Improving Teacher Quality Grants.
- October 2005. Amount (approx.) \$15,000. Subcontract within PRISM (Partnership for Reform in Science and Mathematics). Title: *Evaluating UGA's various routes to secondary science certification: Examining graduates' perceptions of program impact*.
- March 2005. Amount \$55,813.. Hembree, P. A., & Oliver, J. S. (Project Director) *S.A.P.E.L.O. Scientists and Professional Educators Learning Outdoors*. Funded by the Title II Higher Education: Improving Teacher Quality Grants.
- April, 2004. Amount \$21,000. Knauft, D. and Oliver, J. S. (Co-PIs). *Agriculture and Ecology in Tropical America: A field trip to Costa Rica*. Supplemental grant to the Science Behind Our Food NSF project. Funded by the National Science Foundation.
- March, 2004. Amount \$41,217. Oliver, J. S. and Hembree, P. (Co-PIs). *S.A.P.E.L.O. Scientists and Professional Educators Learning Outdoors Ecological Research Experience for Science Teachers*. Funded by the Title II Higher Education: Improving Teacher Quality Grants.
- October, 2003. Amount \$4000. Wallace, C. S. and Oliver, J. S. (Co-PIs). *P-16 Support for Mentor Teachers in Science Education*. Funded by the Georgia P-16 Initiative.
- December, 2002. Amount \$1,449,000. Knauft, D., Oliver, J. S., Paterson, A., and Parrott, W. (Co-PIs.) *Resources for Learning: The science behind our food*. Funded by the National Science Foundation, Graduate Fellows in K-12 Education.
- November, 2002. Amount \$4200. Oliver, J. S. and Wallace, C. (Co-PIs). *Mentoring, Learning Communities and Partnerships for the Improvement of Science Teacher Preparation*. Funded by the Georgia P-16 Initiative.
- October, 2002. Amount \$382,000. Graham, P., Oliver, J. S. and Oppong, N. (Co-PIs). Title: *An Interdisciplinary Study of Teacher Change and Its Impact on Students' Learning*. Funded by the U. S. Department of Education using guidelines developed by the National Board for Professional Teaching Standards.
- February, 2002. Amount: \$33,000. Orrill, C. and Oliver, J. S. (Co-PIs). *EisenSWET: (Eisenhower – Scientific Workings of Everyday Things)*. Funded by the Eisenhower Act for the Improvement of Mathematics and Science Teaching.
- February, 2002. Amount: \$34,695. Oliver, J. S. and Knauft, D. (Co-PIs). *Resources of Agriculture for Teaching Science*. Funded by the Eisenhower Act for the Improvement of Mathematics and Science Teaching.
- November 2001. Amount: \$4200. Oliver, J. S. and Wallace(Keys) C. (Co-PIs). *Creating Secondary School Partnerships in Northeast Georgia*. Funded by the Georgia P-16

Initiative.

February, 2001. Amount: \$18,576. Oliver, J. S. and Arnold, J. (Co-PIs). *Developing a Middle School Science course titled Genomics and Society*. Funded by the Eisenhower Act for the Improvement of Mathematics and Science Teaching.

October, 2000. Amount: \$4600. Oliver, J. S. and Keys, C. (Co-PIs). *Creating Secondary Science Partnerships in Northeast Georgia*. Funded by the Georgia P-16 Initiative.

Recognitions and outstanding achievements:

Distinguished Research Mentor, (selected in the inaugural cohort of five professors) honor given to tenured professors at UGA College of Education – up to four recipients per year. Awarded, Spring 2011.

Yeany Research Award, recipient, honor given to tenured professor at UGA College of Education for total career contribution to educational research – one recipient per year. Awarded, Spring 2011.

Caldwell County Education Hall of Honor, Caldwell County Schools, Lenoir, NC. Inducted April, 2010.

John Shrum Award for Excellence in the Education of Science Teachers, 2009, Awarded by the Southeastern Association for Science Teacher Education, October 10, 2009 at Kennesaw State University, Kennesaw, GA.

University of Georgia **Study in a Second Discipline Fellow**, 1999-2000, Spent the year as a visiting faculty member in the UGA Dept of Genetics, conducted genetics laboratory research as part of a project to sequence the genome of the filamentous fungi, *Neurospora*.

Recipient of the College of Education, UGA, award for Excellence in Teaching (Honors Day), May, 1998 and May, 1999.

Co-Recipient of the Award for the Outstanding Paper of the Year accepted for publication in the journal *Science Education* for 1989; for **Simpson, R. D. and Oliver, J. S. (1990)**.

Summary of major influences on attitude toward science and achievement in science among adolescent students. Science Education, 74(1), 1-18.

Recent Examples of Supervision of student research (served as major professor for 17 individuals who have completed doctoral degree to date):

Recent Doctoral Committees Chaired (completed)

Ed.D. - Baldwin, Paul – 2003; Dennis, Claudia – 2005

Ph.D. - Crockett, Denise – 1999; Li, Hua – 1999; Chun, Sajin – 2000; Gonzalez-Espada, Wilson – 2001; Spellman, James – 2003; Hembree, Patricia – 2005; Park, Soonhye – 2005; Scott, Anna – 2006; Lawrence, Molly – 2007; Youngjin Song – 2008; Joy Dike – 2009; Georgia Hodges (co-chair with Dr. Deborah Tippins) – 2010; Kristen Miller – 2010; Joe Cozart – 2011; Kyung-A Kwon – 2012; Sara Raven – 2013; Melissa Jurkiewicz – 2014; Larry Hampton - 2017

Editorship or Editorial Board member of journals or other learned publications:

Reviewer, *Journal of Research in Science Teaching*, 2016-17
Reviewer, *Science Education*, 2016
Reviewer, *International Journal of Science Education*, 2016
Guest reviewer, *Journal of Research in Rural Education*, Spring 2009
Reviewer, *Journal of Science Teacher Education*, Fall 2008 and Spring 2009
Associate Editor, *Journal of Research in Science Teaching*, term began, January, 2005.
(responsible for synthesizing reviews and writing a letter which states the decision on the manuscript as well as the reasons for the decision)
Reviewer, *American Educational Research Journal*, 2004 to 2007.
Member of Board of Reviewers, *Science Education*, 1992 – 2006.
Associate Editor, *School Science and Mathematics*, January, 1988 through October, 1988.
Department Editor, *School Science and Mathematics Journal*, "Early Days" monthly feature, 1988 - 2002.

Examples of Recent Professional Conference presentations:

- Kim, E., & Oliver, J. S. (2017, April). *Engineering and Science: Striving to understand their interrelated roles in the curriculum*. Poster presented at the international conference of NARST, San Antonio, TX.
- Kim, Y.A., & Oliver, J.S. (2017, April). *Pre-service teachers' understanding of modeling-based assessment in science classrooms*. Paper presented at the international conference of NARST, San Antonio, TX.
- Oliver, J. S., & Wang, L. (2017, April). *The effect of hands-on activities on elementary science learning: A critical literature review*. Paper presented at the international conference of NARST, San Antonio, TX.
- Oliver, J. S. (2016, December). *Integrated science curricula: A consideration of history in light of NGSS*. Paper presented at the International conference of the Asia-History and Philosophy of Science conference, Pusan, South Korea.
- Oliver, J. S. & Park, S. H. (2016, August). *A conceptual model for understanding how PCK changes in science teachers*. Paper presented at the International conference of the East Asian Association for Science Education, Tokyo, Japan.
- Kim, E. J., Oliver, J. S., & Jackson, D. F. (2016, April). *Connecting the imperatives of STEM, NGSS, deep learning and assessment: A conceptual paper*. Poster presented at the annual meeting of NARST, Baltimore, MD.
- Oliver, J. S., Hodges, G. W., Kwon, K. A., Raven, S. P., Rogers, W., Jurkiewicz, M., Cohen, A., Jang, Y., Moore, J. N., & Robertson, T. P. (2014, April). *High school student accomplishment of cellular biology content using 3-D computer based modules*. Paper presented at the annual meeting of the National Association for Research in Science Teaching Conference, Pittsburgh, PA.
- Hodges, G., Oliver, J. S., Robertson, T., Ducrest, D., Eason, S., Maloney, J., Perry, P., Martin, M., & Holden, J. (2014). *Creating, developing, and sustaining successful partnerships among schools, universities, and small businesses to create novel immersive learning environments for secondary students*. Presented at the Third Annual Georgia Scholarship of STEM Teaching and Learning Conference on March 7, 2014 at Georgia Southern University.
- Hodges, G., Ducrest, D., Robertson, T., Perry, P., Holden, J., Oliver, S. Eason, S., & Maloney, J.

- (2014, February). *Using computer based interactive case studies in the biology classroom*. Symposium at the annual meeting of the Georgia Science Teachers Association.
- Oliver, J. S., Hodges, G. W., Rogers, W., Kwon, K. A., Raven, S., Jurkiewicz, M., & DuBois, S. (January, 2014). *A longitudinal study of teaching the cell unit in introductory high school biology*. Presentation at the annual meeting of the Association for Science Teacher Education. San Antonio, TX.
- Oliver, J.S., Hodges, G.W., & Robertson, T. P. (2013, January). *The Implementation and Evaluation of Technology-Based Learning Experiences: Leveraging Technology to Individualize Learning Experiences*. Presentation at the annual meeting of the Association for Science Teacher Education, Charleston, S.C.
- Oliver, J. S., Hodges, G. W., Moore, J. N., & Robertson, T. P. (2012, April). *Teaching cellular processes to high school students using modules based on 3-d computer animations*. Association of Southern Biologists. Athens, GA.
- Oliver, J. S., Hodges, G. W., and others. (2012, March). *Evaluating the assessment of student learning related to novel instructional materials*. Poster session presented at the annual meeting of the National Association for Research in Science Teaching meeting in Indianapolis, IN.
- Oliver, J. S., & Shen, J. (2011, October). *Designing the Transformative Knowledge Organization System (KTOS)*. Presentation at the International Conference of the East-Asia Association for Science Education at Chosun University, Gwangju, Republic of Korea.
- Kwon, KA, & Oliver, J. S. (2011, October). *Teaching Biological Processes Using Curriculum Materials based on 3-D Computer Animations*. Presentation at the International Conference of the East-Asia Association for Science Education at Chosun University, Gwangju, Republic of Korea.
- Huang, S., Oliver, J. S., & Shen, J. (2011, October). *Assessment of learning within the Process of Creating and Testing High Quality 3-D Animations for Teaching Biology*. Symposium at the annual conference of the National Association of Biology Teachers, Anaheim, CA.
- Kwon, KA, & Oliver, J. S. (2011, March). *Making Innovative Curricular that Teachers Want to Use: Animation, Inquiry, and Interactivity*. Presentation at the annual conference of the National Science Teachers Association, San Francisco, CA.
- Ivans, L.J. & Oliver, J. S. (2011, March). Preventing (Addressing) Misconceptions Arising from Student Use of Realistic 3-D Animations, Presentation at the annual conference of the National Science Teachers Association, San Francisco, CA.
- Oliver, J. S., Hodges, G. W., & Kwon, K. (2010, October). Constructing Innovative Curriculum Materials: Collaborations, Challenges, and Creativity. Paper presented at the annual meeting of the Southeastern Association for Science Teacher Education, Decatur, GA.
- Oliver, J. S., Boehle, C., & Mewborn, D. S. (2010, July). *Capitalizing on Talent: The Noyce Fellows Program at the University of Georgia*. Poster presented at the annual meeting of the NSF Noyce grants, Washington, DC.
- Oliver, J. S. & Moore, J. N. (2010, April). *IDEAL Biology: Interactive 3Dimensional Education and Learning*. Poster presentation at the annual meeting of the NIH SEPA (Science Education Partnership Award grants) PI's, Birmingham, AL.
- Oliver, J. S., & Kwon, Kyung-A. (2010, March). *How Do We Know DNA Is the Genetic Material? An Example for Teachers*. Presentation at the National Science Teachers Association, Philadelphia, PA., March 18, 2010.

- Oliver, J. S., & Kwon, Kyung-A. (2010, March). *Creating Biologically Realistic 3-D Animations to Encourage Inquiry in the Classroom*. Presentation at the National Science Teachers Association, Philadelphia, PA, March 20, 2010.
- Song, Y. J., & Oliver, J. S. (2010, March). *Teacher Inquiry Project: Teachers' Practices of Classroom Inquiry Informing Research on Teacher*. Paper presented at the National Association for Research in Science Teaching, Philadelphia, PA., March 22, 2010.
- Hodges, G., Oliver, J. S., & Tippins, D. (2010, March). *Informing Science Teacher Retention and Attrition in the Rural Black Belt Region of Georgia*. Paper presented at the National Association for Research in Science Teaching, Philadelphia, PA., March 22, 2010.
- Hong, J.Y., Oliver, J. S., & Vargas, P. M. D. (2009, April). *Science Teachers' Professional Identity and Beliefs with Relation to Reform Initiatives*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Garden Grove, CA.
- Song, Y., & Oliver, J. S. (2009, April). *Teacher Inquiry Project: Chemistry Teachers' Sense-making of Students' Learning within the Context of Community-Based Inquiry Lessons*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Garden Grove, CA.
- Lawrence, M. N., & Oliver, J. S. (2009, April). *Becoming the teacher "you want to be": Using tools of agency in negotiating identity*. Paper presented at the annual meeting of the American Educational Research Association. San Diego, CA.
- Song, Y., & Oliver, J. S. (2009, April). *Chemistry teachers' sense-making of students' learning through a teacher inquiry project*. Paper presented at the annual meeting of the American Educational Research Association. San Diego, CA.
- Scott, A. K., Oliver, J. S., & Knauff, D. (2009, January). Science majors teaching science in elementary school: Understanding college science students' learning outcomes of a K-12, classroom-based service-learning experience. Paper presented at the annual meeting of the Association for Science Teacher Education. Hartford, CN.
- Scott, A. K., & Oliver, J. S. (2009, January). *Coming through customs: One Ph.D. with two jobs shares her experience at the crossroads between the science classroom and academia*. Interactive paper session at the annual meeting of the Association for Science Teacher Education. Hartford, CN.
- Song, Y., & Oliver, J. S. (2009, January). *Chemistry teachers' sense-making of students' learning: A technology supported teacher inquiry project*. Paper presented at the annual meeting of the Association for Science Teacher Education. Hartford, CN.
- Oliver, J. S., & Park, S. H. (2009, January). *Teacher knowledge and metacognition: A literature synthesis*. Poster presented at the annual meeting of the Association for Science Teacher Education. Hartford, CN.
- Lawrence, M. N., & Oliver, J. S. (2009, January). *Good science teaching or good teaching?: Negotiating identity while learning to teach middle grades science*. Paper presented at the annual meeting of the Association for Science Teacher Education. Hartford, CN.
- Oliver, J. S., & Park, S. H. (2008, October). *Conceptualizing teacher knowledge as metacognition: Developing a deeper understanding of the knowledge teacher enact*. Paper presented at the annual meeting of the Southeastern regional meeting of the Association for Science Teacher Education. Columbia, SC.
- Park, S. H., & Oliver, J. S. (2008, April). *The analysis of instructional variations among chemistry teachers*. Paper presentation at the annual meeting of the National Association

- for Research in Science Teaching, Baltimore, MD.
- Scott, A. K., Oliver, J. S., & Recesso, A. (2008, January). *Using the video analysis tool to promote critical reflection in science teacher education*. Paper presentation at the annual meeting of the Association for Science Teacher Education, St. Louis, MO.
- Park, S. H., & Oliver, J. S. (2007, April). *How does the National Board Certification process facilitate teachers' pedagogical content knowledge development?* Paper presented at the annual meeting of the National Association for Research in Science Teaching, New Orleans, LA.
- Oliver, J. S., & Park, S. H. (2007, January). *An Examination of the Relationship between Teacher Efficacy, Idiosyncrasy and the Accomplishment of Professionalism in Teaching*. Presentation at the annual meeting of the Association for Science Teacher Education, Clearwater, FL.
- Oliver, J. S., & Park, S. H. (2006, October). *Is PCK a holistic concept?* Presentation at the annual meeting of the Southeastern Regional meeting of the Association for Science Teacher Education, Macon, GA.
- Park, S. H. & Oliver, J. S. (2006, April). *Research-based reconceptualization of Pedagogical Content Knowledge*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, San Francisco, CA.
- Tippins, D., Handa, V., Thomson, N., Gangoso, N., Koballa, T., Oliver, J. S., & Morano, L. (2006, January). *Inventing a practice of community in science teacher preparation*. Paper presented at the annual meeting of the Association for Science Teacher Education, Portland, OR.
- Park, S. H., & Oliver, J. S. (2006, January). *The role of gifted students in the development and elaboration of teachers' PCK*. Paper presented at the annual meeting of the Association for Science Teacher Education, Portland, OR.
- Oliver, J. S., & Park, S. H. (2006, January). *The identification of teacher efficacy as a component of science teachers' PCK*. Paper presented at the annual meeting of the Association for Science Teacher Education, Portland, OR.
- Scott, A. K., Oliver, J. S., & Knauft, D. (2005, October). *Revolutionizing University students' conceptions of the learning process: A service learning experience impacts university students' learning and achievement*. Poster presented at the annual National Outreach Scholarship Conference, Athens, GA.
- Smith, T. W., Wang, J., & Oliver, J. S. (2005, April). *Gender stereotype investigation: A validation study of the NBPTS certification*. Paper presented at the annual meeting of the American Educational Research Association, Montreal, Canada.
- Graham, M. A., Opong, N., & Oliver, J. S. (2005, April). *Subject matter specialities as formative factors in teaching*. Paper presented at the annual meeting of the American Educational Research Association, Montreal, Canada.
- Park, S. H., & Oliver, J. S. (2005, April). *National Board Certification, Science teaching and the gifted learner*. Paper presented at the annual meeting of the American Educational Research Association, Montreal, Canada.
- Oliver, J. S., Gay, S. K., & Knauft, D. (2005, March). *Building a science education community within a GK12 fellows project*. Paper presented at the annual meeting of the National Science Teachers Association, Dallas, Texas.
- Park, S. H., & Oliver, J. S. (2005, January). *The Nature and Sources of PCK of Expert Science Teachers*. Paper presented at the annual meeting of the Association for the Education of

- Teachers in Science. Colorado Springs, CO.
- Park, S. H., & Oliver, J. S. (2005, January). *Colleagues' Roles in the Professional Development of Teachers: The Results of National Board for Professional Teaching Standards Research Project*. Paper presented at the annual meeting of the Association for the Education of Teachers in Science. Colorado Springs, CO.
- Oliver, J. S., & Wallace, C. (2004, October). *Five years in the schools: Reflections on the first five years of a school-based science teacher education program*. Paper presented at the annual meeting of the Southeastern Association for the Education of Teachers in Science, Gainesville, FL.
- Scott, A., Knauft, D., & Oliver, J. S. (2004, October). *Fostering our community's understanding of science – FOCUS*. Paper presented at the annual meeting of the Southeastern Association for the Education of Teachers in Science, Gainesville, FL.
- Lyon, G., Wallace, C. S., & Oliver, J. S. (2004, April). *Development of teacher identity in pre-service science education teachers as a situated cognition: Defining 'self' as 'teacher' in a school based context*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Vancouver, British Columbia.
- Spellman, J., & Oliver, J. S. (2004, April). *Teacher-generated models of teaching: Beliefs of experienced secondary science teachers*. Paper presented at the annual meeting of the National Association for Research in Science Teaching, Vancouver, British Columbia.
- Smith, T. W., & Oliver, J. S. (2004, April). *An examination of the relationship between depth of student learning and National Board Certification Status*. Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- Oliver, J. S., & Paker, D. (2004, April). *Motivations for entering the National Board Certification process*. Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- Wang, J., Oliver, J. S., & Garcia, A. (2004, April). *An empirical study of relationships between student self concept and science achievement in Hong Kong*. Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- Oliver, J. S., Graham, P., Oppong, N., & Smith, T. W. (2004, February). *Creating a hybrid instrument to examine student accomplishment of content specific understanding*. Paper presented at the annual meeting of the American Association for Colleges of Teacher Education, Chicago, IL.
- Wallace, C., Narayan, R., Lyons, G., Spellman, J.E., & Oliver, J. S. (2004, January). *Learning to teach science as a cognitive apprenticeship: Reports from our school-based methods block*. Symposium at the annual meeting of the Association for the Education of Teachers in Science, Nashville, TN.
- Smith, T. W., Oliver, J. S., & Hale, M. (2003, November). *Examining the relationship between depth of student learning and National Board Certification status*. Paper presented at the annual conference for the National Board for Professional Teaching Standards. Washington, DC.
- Oliver, J. S., Graham, P., & Oppong, N. (2003, March). *An interdisciplinary study of teacher change and its impact on student learning*. Presentation at the annual meeting of the Georgia Association of Accomplished Teachers and Supporters (GAATS). (one presentation was to the higher education sub group and a second presentation was to the general audience.) Atlanta, GA.
- Oliver, J. S. (2002, October). *Influences of how we learned on how we teach: A science example*.

- Paper presented at the annual meeting of the School Science and Mathematics Association, Rochester, NY.
- Oliver, J. S., & Wallace, C. (2002, February). *Creating a standards based collaborative science teacher education program: Shared responsibility, the planning process and assessment*. Poster session at the annual meeting of the Association of American College of Teacher Education (AACTE), New York, NY.
- Oliver, J. S., & Wallace, C. (2002, January). *A route to teaching reflection*. Paper presented at the Annual meeting of the Association for the Education of Teachers in Science, Charlotte, NC.
- Spellman, J., & Oliver, J. S. (2002, January). *The nature and history of science in 9th grade physical science*. Paper presented at the Annual meeting of the Association for the Education of Teachers in Science, Charlotte, NC.
- Gonzalez-Espada, W., & Oliver, J. S. (2002, January). *Making Puerto Rican High School Physics Contextually and Culturally Relevant: A statistical analysis of influencing factors*. Paper presented at the Annual meeting of the Association for the Education of Teachers in Science, Charlotte, NC.
- Chun, S., & Oliver, J. S. (2002, January). *An investigation of the relationship between science teaching actions and beliefs about the nature of science*. Paper presented at the Annual meeting of the Association for the Education of Teachers in Science, Charlotte, NC.
- Oliver, J. S. (organizer) (2001, February). *Science education at the University of Georgia*. Session at the annual meeting of the Georgia Science Teachers Association. Macon, GA.
- Chun, S., & Oliver, J. S. (2001, January). *An examination of the relationship among science teaching actions, beliefs, and the knowledge of the nature of science*. Paper presented at the annual meeting of the Association for the Education of Teachers in Science, Costa Mesa, CA.
- Oliver, J. S., Keys, C. W., & Lyons, G. (2001, January). *Learning to teach science in the high school context*. Paper presented at the annual meeting of the Association for the Education of Teachers in Science, Costa Mesa, CA.
- Spellman, J., & Oliver, J. S. (2001, January). *Attitude of rural high school students toward science on the block schedule*. Paper presented at the annual meeting of the Association for the Education of Teachers in Science, Costa Mesa, CA.
- Chun, S., & Oliver, J. S. (2000, January). *A quantitative study of the science teachers knowledge of science and beliefs about the nature of science*. Paper presented at the annual meeting of the Association for the Education of Teachers in Science, Akron, OH.

Examples of Recent National and International Consultancies:

- Fellow Selection Committee, Knowles Science Teaching Foundation, Philadelphia, PA. March 2006, March 2008, March 2009, March 2010, March 2011; Section chair, 2006, 2008 and 2010.
- Proposal reviewer, National Science Foundation – October, 2004; May 2006; May 2007; July 2007 and May 2012.
- Advisory Committee Member, Knowles Science Teaching Foundation, (a philanthropic foundation devoted to the improvement of science teaching), Haddonfield, N.J. (www.kstf.org), January 2002 to 2008.
- Fellow Selection Committee, Knowles Science Teaching Foundation, Philadelphia, PA. March

2006.

Consultant to the National Board for Professional Teaching Standards research project at Appalachian State University, Dr. Tracy Smith, Project Director. Feb 2003 to June 2005.
Proposal reviewer, M. J. Murdock Charitable Trust, March 2000.
Site Visit Team Member, Rural Systemic Initiative (RSI) Evaluation Study, 1999 – 2001.
Evaluator on trips to Rockcastle Co., Kentucky, Gila River, AZ, Newport, TN; and, Pasquotank Co, NC.
Resource Advisory Team Member, Rural Systemic Initiatives (RSI) Evaluation Study (funded by the National Science Foundation), Appointed February, 1999. Responsible for providing expertise on science education in rural schools.

Examples of OTHER SERVICE

Service to Professional Organizations:

Proposal reviewer, NSF, Discovery Research K-12, May 2012
Session presider, NARST annual conference, March 2012
Proposal Reviewer, American Educational Research Association annual meeting, Fall 2008.
Member, National Association for Research in Science Teaching, Outstanding Paper Committee, 2005 - 2006.
Proposal reviewer, NARST annual meeting, Fall 2002. Both strands 2 and 4.
Participant at the researchers meeting for the National Board of Professional Teaching Standards. January 18 and 19, 2002, Chicago, IL.
Proposal reviewer, NARST annual meeting, Fall 2001. Both strands 2 and 4.
Chair, Publications Committee, School Science and Mathematics Association, 1999 - 2000.
Financial Advisory Committee, National Association for Research in Science Teaching, 1997-2000.
Dissertation Award Committee, National Association for Research in Science Teaching, Appointed, May 1995 - 2000.
Director-at-Large, School Science and Mathematics Association, May, 1993 - November, 1996.

Examples of Service to Student and School Organizations:

College of Education, Promotion and Tenure committee, Chair, 2017
Secondary science education, Committee chair, 2014 – 2015, 2016-2017, 2017-2018
UGA university level promotion and tenure committee member, 2014 - 2015
Guest speaker: Morgan County Elementary School. *Genetics*. October 12, 2012
Keynote speaker: UGA COE Graduate Student Association, *Collaborating with scientists and others to create new and innovative projects*. April 27, 2012.
PRAC, Program Review and Assessment Committee, University of Georgia committee, 2011 – 2013.
Creative Research Medal selection committee, University of Georgia OVPR committee, 2010 – 2012.
Study in a Second Discipline Selection committee, UGA, 2006-2009.
Graduate Faculty Appointments and Reappointments, College of Education, UGA, 2005 – 2007

Keynote speaker: UGA Graduate Student Association, *Learning Biology through Animations and Inquiry*, Saturday, March 27, 2010.

Member, STEM Advisory Board, Madison County School, Danielsville, GA., January 2011 to present

Co-Chair, STEM Long Range Planning committee, Athens Academy, Athens, GA., July 2011 to present.

Member, Program Review Advisory Committee (PRAC), The University of Georgia, August 2011 – May 2013.

Member, Creative Research Medal selection committee, OVPR – The University of Georgia, August 2010 – May 2012.