

Curriculum Vita
Aimee Lee Govett

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College of Education
Department of Curriculum & Instruction
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EDUCATION

Doctor of Education Curriculum & Instruction; West Virginia University 5/01
Emphasis in Secondary Science Education

PROFESSIONAL EXPERIENCE

- August 2003 to present*** Tenure-track Assistant Professor, East Tennessee State University College of Education, Department of Curriculum & Instruction, Science Education
- August 2000 to May 2003*** Tenure-track Assistant Professor, University of Nevada Las Vegas College of Education, Department of Curriculum & Instruction, Science Education
- August 1998 to May 2000*** Clinical Assistant Professor, University of Nevada Las Vegas College of Education, Department of C & I, Science Education
- June 1995 to August 1998*** Graduate Teaching Assistant, West Virginia University, College of Human Resources and Education, Department of Educational Theory and Practice
- September 1989 to June 1995*** Secondary Science Teacher certified in Biological sciences and general science 7 – 12, Morgantown High School of Monongalia County Schools, West Virginia

TEACHING PRACTICE

- Teaching full course loads at Graduate and Undergraduate level
 - ≈ Early Childhood Science Methods
 - ≈ Integrated Teaching: Elementary Science Methods
 - ≈ Secondary Science Methods
 - ≈ Supervision of Student Teachers in Middle and High School placements
 - ≈ Multicultural Education
 - ≈ Graduate classes in instructional methods, curriculum development and theory

- Named an associate member of the Graduate Faculty of East Tennessee University. (2004)
- Developed and implemented a culturally sensitive K – 12 Science Education Methods course for the Pinon school system on the Navajo Reservation in Pinon, Arizona (Fall 2002, Spring 2003)
- Collaboratively developed and taught a three credit graduate level course, *Secondary Education: Teaching Evolution and the Nature of Science* BIO 705 (Summer 2002) with Dr. Rhonda Snook, Biologist, University of Sheffield, UK.
- Collaboratively developed and taught a three credit graduate course, *Physics and Physical Science for Middle and High School Teachers* ICS 712 with Dr John Farley, Physics, UNLV College of Sciences. (Summer 2001, Summer 2002, Spring 2003)
- Collaboratively developed and taught a three credit graduate course *K -12 Teaching Science and Literature* ICE 723/ICS 712 with Dr. Cyndi Giorgis, K -12 Literacy, UNLV Department of Curriculum & Instruction. (Summer 2002)

RESEARCH EXPERIENCE

Refereed Publications:

Govett, A., & Farley, J. (2005). A Pilot Course for Teachers. *Physics Teacher*, 43 (May 2005), 272-275.

Govett, A. & Farley, J. (submitted March 2005), A Course in Physics for Teachers. *Journal of Science Teacher Education*.

Hemler, D., Heatherly, S.A., Govett, A., and Lomann, M. (1999). Radio Astronomers for a Day. *Science Scope*, (March 1999).

Pyle, E.J., Obenauf, P., Heatherly, S.A., Hemler, D., Barden (Govett), A., Gansneder, B., Evans, J., and DiBiase, W. (1997). The impact of teacher research experience: Learning "real" science in a "real" context. In P.R. Rubba, P.F. Keig, & J.A. Rye (eds.) *Proceedings of the 1997 Annual International Conference of the Association for the Education of Teachers in Science*, 374-385.

GRANT HISTORY

- Principal Investigator (2005) This General Competition project (TQI: Tennessee Higher Education Commission) entitled, "Elementary Science Teaching and Learning Partnership for Northeast Tennessee," was designed to train 20 elementary science teachers (K-5) in the eight rural school districts in the Upper East Tennessee Educational Cooperative (UETEC). Elementary teachers participated in a ten-day, 55

hours of instructions, leadership institute on the ETSU campus during the summer of 2005. This will be followed by 10 hours of follow-up activities during the academic year of 2005-2006. Awarded \$60,583.00.

- Principal Investigator (2004) RDC Account 04-039sm "Changing Elementary Preservice Teachers' Attitudes Toward the Nature of Science and Teaching Science". This grant funded the purchase of materials and development of a standards based physical science content course designed specifically for elementary teacher candidates. Awarded \$990.00.
- Consultant (2001-2006) NSF Grant DEB-0093149 Teaching Component of Evolution Research funded \$430,000. (PI: Rhonda Snook, University of Sheffield, England; January 15, 2001- 2006) Our purpose was to design and implement professional development courses for teachers which address and facilitate the teaching of evolution science. The evolution curriculum as developed by Dr. Aimee Lee Govett (Secondary Science Education) and Dr. Rhonda Snook (Evolutionary Biology) was taught in a WebCT enhanced summer course, BIO 705, "Secondary Education: *Teaching Evolution and the Nature of Science*". This project began when both researchers were faculty at the University of Nevada at Las Vegas (UNLV). It will continue as a UNLV summer course until 2006 though the PI, Dr. Rhonda Snook, has relocated to the University of Sheffield, England and the science education specialist, Dr. Aimee Govett, is now at East Tennessee State University.
- Collaborator (2004) This NSF - Interagency Education Research Initiative (IERI) grant proposal was intended to pilot and assess physical science content curriculum over four years (2004-2008) in selected state institutions across the United States. My role was to teach the prescribed content in my elementary science methods classes and to administer the pre- and post- content knowledge assessments to our teacher candidates. In collaboration with Dr. Eric A. Hagedorn (P.I.) in the Department of Physics, University of Texas, El Paso, all participant institutions would share the results, analysis, and interpretation of the assessment data. (not funded)
- Collaborator (2003) "Partnership for Excellence in Science, Technology, Engineering and Mathematics", submitted January 7, 2003 to NSF Math Science Partnership competition. Total request \$34,999,896.00 over 5 years. UNLV's subaward is \$5,358,835.00. (Not funded)
- Co-Principal Investigator (2003) "The Interactive Classroom for Improved Teaching in Large Introductory Lecture Classes in the College of Sciences." Submitted for \$29,898, not funded (UNLV Planning Initiative Award 2003 - 2004)
- Principal Investigator (2002) "Planning for a Joint Center for Science and Mathematics Learning" Awarded \$30,000 (UNLV Planning Initiative Award 2002 - 2003)

- Principal Investigator (2001) "Science education Partnership to Enhance Physical Science Instruction". Proposed to Eisenhower Professional Development Program, An intensive summer institute for both preservice and inservice teachers including six days of follow-up feedback meetings during the academic year, Awarded \$20,340 (funded 7/01/01 to 9/30/03)
- Co-Principal Investigator (1999) with Henry, L.J., "Project I.M.P.A.C.T.: "Improving Multidisciplinary Performance and Collaborative Teamwork." Awarded \$9,817 (UNLV New Investigator Award Proposal 1999-2002)
- Outside Co-evaluator (2000) for three years of Project THREAD: Technology Helping Restructure Educational Access & Delivery (PT3 an initiative of the U.S Department of Education for 2000-2002)
- Co- Principal Investigator (2001) with Buck, P.E., and Crowther, D. "Improving Nevada's Science Education Infrastructure." A proposal to build K-12 science education infrastructure targeting inservice elementary and secondary teachers throughout Nevada. A pre-proposal to Nevada's NSF EPSCoR Infrastructure proposals, (requested \$4,527,009; not funded.)
- Co- Principal Investigator and Site-Coordinator (1999) ST²EP for Student Teacher Technology Education Partnership grant (PT3). The ST²EP Project involves creating a collaborative learning community with faculty (Dr. Aimee Govett and Ms. Cynthia Hernon) at UNLV, secondary math and science preservice teachers, and working off-campus with partnership middle and high schools. \$53,000. (funded - 9/01/99 to 8/31/02, PI and Site Director: Dr. Neal Strudler)
- Consultant for The Authentic Integration of Science and Technology in Field-Based Settings, University of Nevada Las Vegas (Eisenhower Grant 1998-1999)
- Co-principal Investigator for Using Technology and Innovative Approaches in Preservice Teacher Education (University of Nevada at Las Vegas internal funding: Planning Initiative Award 1998-1999)
- Research assistant for the program evaluation committee of the RETP Inservice Teacher Institute at National Radio Astronomy Observatory in Green Bank, West Virginia, funded by a NSF Teacher Enhancement Program Grant; responsibilities - assisting in administration of six evaluation instruments, collection, recording, and analyses of quantitative data, and reporting of these findings to the outside evaluator for the project. (1995 – 1998)

CONFERENCE PRESENTATIONS: INTERNATIONAL AND NATIONAL

- **April 2006 National Science Teacher Association Meeting (NSTA)**, Anaheim, California - yet to be accepted (Deadline for submission: April 2005)

ABSTRACT: Beginning fall 2004, I collaborated with Dr. Jean Hamm, Ms. Linda Turnbo, and Dr. Tammy L. Barnes to create an interdisciplinary research agenda. This competitive proposal provides information about literacy and how it is no longer defined as the ability to merely read and write, and teachers are no longer the repositories of knowledge. Educators must provide opportunities for students to develop the competency to find, understand, use, and evaluate information in a variety of formats. This presentation offers strategies for science students to engage in authentic research using streaming video, databases, and primary sources as they search for answers and write about their own questions. The audience will receive suggestions for modeling scientific inquiry using literature, reflective journaling, and writing responsively to engage thinking. Presenters will also provide information about streaming video and other Internet resources. This presentation is one part of an ongoing, comprehensive project to develop an integrated approach to literacy across disciplines.

- Govett, A.L. & Farley, J.W. "A Pilot Course in Physics for Teachers". Interactive paper presentation in the category of Scientists collaborating with Teacher Educators, **International Association of Educators of Teachers of Science Annual Meeting**, (January 2004)
- Speer, W., Govett, A., Shih, J., Crippen, K., and Herson, C., Panel Presentation on "Integrating Mathematics, Science, and Technology" at the 2003 **Annual Research Council on Mathematics Learning (RCML) Conference** in Tempe, AZ, March 2003.
- Govett, A. & Herson, C. "Teachers Inquiring into Science Learning and Teaching" Poster Session for (National Association of Research in Science Teaching Strand) **National Science Teachers Association (NSTA) Annual Conference** in San Diego, CA, March 2002.
- Govett, A. & Henry, L.J. "Collaboration Skills as Investments in Scientific Literacy: Results of a Delphi Study" at the **Association for the Education of Teachers in Science (AETS) Annual Conference** in Charlotte, NC, January 2002.
- Hemler, D. & Govett, A. "Changing Teachers' Attitudes and Perceptions of Science and Scientific Research" at the **Association for the Education of Teachers in Science (AETS) Annual Conference** in Charlotte, NC, January 2002.
- Hemler, D. & Govett, A. "Preservice Teachers' Perceptions of Themselves as Researchers" at the **Association for the Education of Teachers in Science (AETS) Annual Conference** in Costa Mesa, CA, January 2001.

- Govett, A. & Henry, L.J. "I.M.P.A.C.T.: Research toward improving multidisciplinary performance and collaborative teamwork." at the **Association for the Education of Teachers in Science (AETS) Annual Conference** in Costa Mesa, CA, January 2001.
- Govett, A., Henry, L.J., & Day, C. "Greater than the Sum of its Parts: Enhancing Achievement Through Collaborative Efforts" at the **National Association of Multicultural Education (N.A.M.E.) Annual Conference** in Las Vegas, NV, November 2001.
- Govett, A. & Henry, J. "Project I.M.P.A.C.T.", at the **100th School Science & Mathematics Association (SSMA) Annual Conference** in Chicago, IL, November 2001.
- Shih, J. & Govett, A. "The Impact of Integrated Science and Mathematics Methods", at the **100th 2001 SSMA Annual Conference** in Chicago, IL, November 2001.
- Govett, A.L. & Hernon, C. "Strengthening Secondary Math/Science Connections", at the **100th 2001 SSMA Annual Conference** in Chicago, IL, November 2001.
- Govett, A.L. & Henry, L.J. "A Delphi Study of Desired Skills, Knowledge, and Resources of an Effective Collaborative Practitioner", **2000 Annual National Association of Research in Science Teaching** in New Orleans, LA.
- Hemler, D. & Govett, A.L., "Preservice Teachers Experiencing Scientific Research: A Model for a Science Methods Course", **2000 Annual National Association of Research in Science Teaching** in New Orleans, LA.
- Govett, A.L. & Henry, L.J. "Diversity and Collaborative Learning: Exposing the Hidden Treasure" at **National Association for Multicultural Education (NAME) 9th Annual International Conference** in San Diego, California, November 1999.
- Govett, A.L. & Dixon, J. "Integrating Technology into Preservice Teacher Education" at **North Carolina Council of Teachers of Mathematics (NCCTM) and School Science and Mathematics Association (SSMA) National Conference**, Greensboro, North Carolina, September-October 1999.
- Govett, A.L., Baker, M., Anderson, M. & Rumann, S. "Critical Theory and the K-12 Teacher/Intellectual" at the **Fifth Annual International Conference of Pedagogy and Theatre of the Oppressed** in New York City, NY, June 1999.
- Govett, A.L. "Students as Researchers" at 1999 **National Science Teacher Association Conference (NSTA)**, Boston, Massachusetts, March 1999.

CONFERENCE PRESENTATIONS: REGIONAL OR STATE/LOCAL

- Govett, A., Hamm, J., Turnbo, L., and Barnes, T.J. "Screaming Streaming Science Video", **Southern Regional National Science Teacher Association (NSTA) Conference**, Nashville, TN, November 2005.

- Turnbo, L., Govett, A., Hamm, J., and Barnes, T.J. "Screaming Streaming Video" **Tennessee Association of School Librarians (TASL) Annual Conference** at Knoxville, TN, November 2005
- Govett, A. and Snook, R. "Secondary Education: *Teaching Evolution and the Nature of Science*", at the **Mid-Atlantic Association of Science Teacher Education (MA-ASTE) Annual Conference** at Roan Mountain State Park, Roan Mt., TN - Poster presentation, October 2004.
- Govett, A.L. & Farley, J.W. "Innovative Introductory Physics: A Blended Science Course for Teachers" Paper presentation/ discussion, **Tennessee Academy of Science in conjunction with Tennessee Science Teachers Association**, (November 2003).
- Govett, A.L. & Farley, J.W. *Innovative Introductory Physics: A Blended Science Course for Teachers*. Paper presentation, **Mid-Atlantic Association of Educators of Teachers of Science 2003 Annual Meeting**, October 2003.
- Farley, J. & Govett, A. "Integration Model: Combining science content and pedagogy." At the **Nevada State Science Teachers Association Annual Conference** in Las Vegas, Nevada, November 2001.
- Presented "Collaborative Group Projects: Pain Management Strategies" at the Annual Meeting of the **Nevada Association of Teacher Educators (NATE) and the Nevada Association of Colleges of Teacher Education (NACTE)** at the Tam Alumni Center on the UNLV Campus, November 1999.
- Presented "Changes in In-Service Teachers' Perceptions of the Nature of Science" at the **Mid-Atlantic Association for the Education of Teachers in Science (AETS) Conference** in Chapel Hill, North Carolina, September 1998

PROFESSIONAL WORKSHOPS

- Taught a 2-day Summer Teachers Institute in K-5 Science Education for Southern Nevada Regional Professional Development Office (July, 2002)
- Team-taught a teacher workshop for the 1999 Colleges of Sciences and Engineering/CCSD Science and Technology Day with Dr. Juli Dixon.
- Team-taught a Secondary Mathematics, Science, and Technology Integration Seminar for ICS 414/416 students with Dr. Juli Dixon. (1999)
- Taught seminar for 1999 Expanding Your Horizons in Mathematics and Science Conference at UNLV to young women, grades 6-12.
- Taught pedagogical content seminar both semesters for College of Science Undergraduate seminar course BIO 493 (Science and Elementary Education Dyad, SEED Program).(1999)

- Team-taught a Secondary Mathematics, Science, and Technology Integration Seminar for ICS 722 students with Dr. Juli Dixon.
- Mentor and instructor for the Research Experiences in Teacher Preparation (RETP) Institute funded by the National Science Foundation since June 1995, involving inservice teacher participants at a two-week residential institute at the National Radio Astronomy Observatory in Green Bank, West Virginia. (1995 – 1999)
- West Virginia Geological and Economic Survey (WVGS) “RockCamp I” and “Rock Camp III” NSF funded Teacher Institutes - presenter and instructor for stream monitoring workshops “Cheat Lake Water Quality Study”. (July 1997, June 1997, July 1996, July 1995)
- Presented two-day Water Monitoring Training Workshop for Monongalia County Sixth Grade Teachers. (April 1997)
- Coordinated Project Wet: West Virginia Leadership Training Workshop for k-12 and college educators, and community environmental groups. (February 1997)
- Coopers Rock Foundation “Celebration of the Outdoors” Held workshop on stream monitoring for adults and children. (May 1994-1995)
- Morgantown High School “Technology Night” presenter. Helped run demonstrations on Internet for a parent forum. (October 1994)
- Mid-Atlantic Regional “Appalachian Rivers and Watershed Symposium” Presentation “A Comparative Stream Study”, local stream study data with my High School Environmental Science students. (June 1994)
- Eastdale Elementary School “A Night with the Stars” Helped develop and coordinate an astronomy workshop with my high school students for 300 elementary children and parents. (March 1994)
- Morgantown High School “Parent Forum”: Presented new science curriculum being offered. (February 1994)
- WV Council for Exceptional Children Conference panel speaker. (November 1992)

PROFESSIONAL DEVELOPMENT:

- Attended six technology workshops related to teaching and student advising: Blackboard Version 6.0 Updates; BlackBoard Overview; BlackBoard Communications; Beginning Student Information Systems; and FrontPage Sound, Video, and Animations. (2004)
- Attended three Grant related workshops through the Office of Research Development: Finding Internal Grant Opportunities; Finding Funding Opportunities for Grants; and Grant Writing. (2004)

- Attended Advising 101 in the Student Advising Office both Fall 2003 and Spring 2004 for the Introduction to the New 120-Hour Program.
- Attended a three part workshop presented by the Office of Sponsored Programs regarding training for the National Science Foundation's on-line proposal submission system, FASTLANE: Overview of the FASTLANE system; PI information in NSF Database; and Post-award FASTLANE functions. (2000)
- Chosen to participate in the Educator Externship Program supported by the Southern Nevada Regional Partnership on Schools-to-Careers in order to develop and implement a curriculum in our k-12 science methods program of teachers as researchers working with scientists. (Spring 1999)
- Volunteer research assistant for the FACE Project (Forced Atmospheric Carbon Dioxide Emissions) at the Nevada Test Site in an on-going program at the Desert Research Institute funded by the National Science Foundation. (Spring 1999)
- West Virginia Governors Academy for Teachers. (Summer 1994)
- Exxon Energy Cube In-Service Teacher Workshop, West Virginia. (December 1994)
- Frostburg State University Mathematics Symposium. (April 1993)
- National Geographic “Environmental Institute for Teachers”, West Virginia. (May 1993)
- Illinois Rivers Curriculum Project. Involved in the development of “The Rivers Curriculum”, Principia, Illinois. (August 1993)
- Biotechnology Outreach Workshop participant (Benedum Foundation Grant Project) working with DNA extraction and electrophoresis, West Virginia University. (March 1992)

SERVICE CONTRIBUTIONS

National Service

- **Mid-Atlantic Regional Representative (elected) to the Board of Directors for the Association for Science Teacher Education (2004-2008).** - developed a website for the Mid-Atlantic Region to be used for information and links to the national and international organizations.
- **AETS Professional Development Committee** – International Association of Educators of Teachers of Science (January 2003 – December 2005)

- **Finance committee member** of the National School Science and Mathematics Association (SSMA) (2000-2003)
- **Reviewer for NSF 2001 F.I.P.S.E. Comprehensive Program Proposals.** Reviewed proposals concerning Physics and other science education issues. (May, 2001)

Regional or State/Local Service

- As science education faculty at ETSU, Jack Rhoton and I hosted the **2004 Mid-Atlantic Regional ASTE conference, October 15-16, 2004 on Roan Mountain.** It was well-attended and a valuable professional exchange for the eight state region.
- Tent Monitor/Coordinator Volunteer for the 2003 National Storytelling Festival Tent - Jonesborough Repertory Theatre.
- Conducting a study for UNLV Representative Member of the Southern Nevada Regional Standards Alignment Committee consisting of representatives from the Community Colleges, the Clark County School District Department of Education, and classroom teachers from the Clark County School District. (1998 – 2003)
- Consultant for **Mathematics and Science Enhancement (MASE) Center** in the Clark County School District funded by the National Science Foundation. (1998-2001)
- Member of Advisory Committee for the Community Colleges of Southern Nevada (CCSN) **Science Center and Planetarium.** (2001 -2002)
- Member of Steering Committee of **Project A+:** an outcome of C.A.S.A. to deal with acceleration of student achievement in the Clark County School District with representatives from CCSD, UNLV, and the Nevada Board of Education. (2000 – 2003)
- Named County Curriculum Coordinator by the Monongalia County Solid Waste Authority for the School Recycling Program. (1995-1998)

East Tennessee State University Service

- **Student Tennessee Education Association Advisor:** I am co-advising with Michele Banner, actively recruiting STEA members, working closely with organization leadership, attending Fall Leadership Conferences, Spring Delegate Assembly Conventions, and other organizational activities, both local and state-wide.
- **ETSU Wellness Committee, 2004-2006:** The Chair of the Faculty Senate Committee on Committees nominated me as Member-at-Large and the committee approved the appointment.

- Volunteered for many **Portfolio Evaluative Boards** during the Spring, Summer, and Fall (2004 -2005) semesters.
- **Curriculum and Instruction Admissions Boards:** Volunteered during the Spring, Summer, and Fall (2004 -2005) semesters.
- Member of **Search Committee** for position of secondary educatorion (Young Adult Generalist) (2003)
- Member of **Search Committee** for position of University School Instructor – Chemistry (2004)
- Member of **Search Committee** for position of University School Instructor – 5th grade (2005)

University of Nevada Las Vegas Service

- Responsible for writing the NCATE report for the Secondary Science Teacher Preparation Program (2002-2003)
- Co-Editor of the **COE Multicultural Newsletter** (2002)
- Outside representative of Department of Special Education Bilingual/Multicultural Search Committee (2202)
- Co-chair of three Curriculum & Instruction Science Education Search Committees (2000 -2003)
- COE Representative on **Research Macrotheme: Arid Lands Environmental Science, Policy, and Engineering** (2003)
- UNLV Representative member of the **Standards Alignment Committee** consisting of representatives from the Community Colleges, the Clark County School District Department of Education, and classroom teachers from the Clark County School District (2000 – 2003)
- Member of Steering Committee of **Project A+:** an outcome of C.A.S.A. to deal with acceleration of student achievement in the Clark County School District with representatives from CCSD, UNLV, and the Nevada Board of Education (1999 – 2003)
- Consultant for **Mathematics and Science Enhancement (MASE) Center** in the Clark County School District, funded by the National Science Foundation (1999 – 2003)

- Member of College of Education **Honors and Scholarship Committee** (1998-2001)
- Member of the College of Education **Diversity Committee**
- Member of University **General Education Committee** (1998-2001)
- Program Director and Advisor of Cohort for alternative teacher certification program for mathematics and science secondary teachers – **Professional Development Degree for Science and Education. (P.D.D.S.E.)**
- Graduate Committee member – 42 C & I Master's (one defended 1999, 2000, 2001, and 2002), 25 Special Education Master's and five doctoral committees
- Consultant for the **Science and Elementary Education Dyad (SEED)** a College of Science program to pair pre-med. students with an elementary teacher partner to help facilitate the implementation of inquiry-based science in the classroom. (1998-2000)

SPECIAL AWARDS

- University of Nevada at Las Vegas Teaching Award: UNLV Alumni Academics Achievement and Commitment to Student Learning and Development Award (2002)
- University of Nevada at Las Vegas Teaching Award: Mitzi Hughes UNLV Alumni Outstanding Professor Award (1999-2000)
- West Virginia University - Awarded the 1997-1998 Graduate Research Award - Grant-in-Aid of Research.
- SIGMA XI - The Scientific Research Society, elected an Associate Member (1998).

PROFESSIONAL ORGANIZATIONS

- Association for Educators of Teachers in Science (AETS)
- National Association of Research in Science Teaching (NARST)
- National Science Teachers Association (NSTA)
- Tennessee Science Teachers Association (TSTA)
- School Science and Mathematics Association (SSMA)
- Research Council for Mathematics Learning (RCML)
- National Association of Biology Teachers (NABT)
- American Association for the Advancement of Science (AAAS)
- American Educational Research Association (AERA)
- National Education Association (NEA)
- Tennessee Education Association (TEA)