

CURRICULUM VITAE

HARVEY HENSON, JR.

Assistant Professor

Curriculum and Instruction, College of Education and Human Services

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Director

Science, Mathematics and Action Research for Teachers (SMART) MSMSEd Program

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CURRICULUM VITAE of HARVEY HENSON, JR.

I. CONTACT INFORMATION

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II. EDUCATION

Ph.D. Science Education	Southern Illinois University, Carbondale, IL, 2015
M.S. Geology/Geophysics	Southern Illinois University, Carbondale, IL, 1989
B.S. Geology	Ball State University, Muncie, IN, 1985

III. PROFESSIONAL EXPERIENCE

2016- Assistant Professor
Curriculum and Instruction, College of Education and Human Services
Department of Geology, College of Science

2008-2016 Assistant Dean
College of Science, Southern Illinois University Carbondale, IL

2008- Director, Co-PI and Instructor
Science and Mathematics Teacher (SMART) MSMSEd Graduate Program
College of Science & College of Education and Human Services
Southern Illinois University Carbondale, IL

2001- Director and Co-PI
Young Earth Scientists (YES) Project
College of Science, Southern Illinois University Carbondale, IL

2001-2016 Instructor in Geosciences
Department of Geology, Southern Illinois University Carbondale, IL

1996- Adjunct Curator in Geology – *Science Education and Outreach*
University Museum
College of Liberal Arts, Southern Illinois University Carbondale, IL

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- 1999-2008 Director, Basics in Geology (BIG) afterschool program
Department of Geology, Southern Illinois University Carbondale, IL
- 1996-2008 Research Project Specialist in Geology
Department of Geology, Southern Illinois University Carbondale, IL
- 1990-1996 Research Project Specialist in Seismology
Department of Geology, Southern Illinois University Carbondale, IL
- 1988-1990 Research Assistant in Seismology
Department of Geology, Southern Illinois University Carbondale, IL
- 1988 Consulting Geophysicist
AMAX Coal Company, Marion, IL
- 1987-1988 Geophysics Technician
Department of Geology, Southern Illinois University Carbondale, IL
- 1986-1987 Teaching Assistant
Department of Geology, Southern Illinois University Carbondale, IL
- 1985-1986 Research Assistant in Seismology
Department of Geology, Southern Illinois University Carbondale, IL

IV. COURSES

- GEOL 440 Advanced Topics in Geological Sciences (Independent Study & Research)
- SCI 503A Science for Elementary Teachers
- SCI 503B Science for Elementary Teachers
- GEOL 585 Earth & Space Science for Teachers (helped develop course)
- UCOL 101S Foundations of Inquiry (helped develop and teach course)
- GEOL 112 Geology and the Environment Laboratory
- GEOL 221 Earth through Time
- GEOL 224 Earth through Time Laboratory
- GEOL 437 Field Course in Geophysics (field and lab instructor)

V. GRADUATE TEACHING AND PROGRAM ADMINISTRATION

SMART (Science, Math & Action Research for Teachers) MSMSEd Graduate Program

PI and Creator of MSP/PD program for Teachers; Director and Instructor; 2008-present

- MATH 411 Mathematical Topics for Teachers
- SCI 503A Science for Elementary School Teachers
- BIOL 500 Contemporary Biology for Teachers
- CHEM 506 Chemistry Topics for Teachers
- GEOL 585 Earth and Space Science for Teachers
- MATH 511 Advanced Topics in the Teaching of Mathematics
- PHYS 575 Special Physics Topics for Teachers

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CI 530	Teaching Problem Solving in School Mathematics (Grades K-8)
CI 522	Integration of Technology into Science and Mathematics Education
CI 428	Science Methods and Curriculum Development for K-8
CI 593(d)	Individual Research in Science Education
CI 593(e)	Individual Research in Mathematics Education
CI 539	Leadership in Mathematics and Science

With Dr. Mary Wright (Mathematics, SIUC) and Dr. Frackson Mumba (formerly Curriculum & Instruction, SIUC) I developed and implemented an innovative Master of Science Degree in Mathematics and Science Education (MSMSEd) for elementary and middle school mathematics and science teachers through our Science, Mathematics and Action Research for Teachers (SMART) program (www.smart.siu.edu). This program was funded by the Department of Education through Illinois State Board of Education (ISBE), (\$1.3 million). Since 2010, 53 teachers have graduated from the program. Seven departments across SIUC campus are involved in this degree program.

VI. FUNDED RESEARCH AND EDUCATION GRANTS (\$8,488,127 total support)

1. *"I-STEM Math and Science Teacher Workshops and Professional Development"*, Co-Principal Investigators: Greg Budzban, Wesley Calvert, Lingguo Bu, **Harvey Henson** & Ron Nagrodski, Agency: Jackson/Perry ROE 30 & ISBE Amount: \$23,850 Period: 07/01/15-06/30/16
2. *"Disaster Mitigation & Readiness: Development & Implementation of Multi-Purpose Educational Media"* Co-Principal Investigators: **Harvey Henson** & Lingguo Bu Agency: IEMA/FEMA & SIU Amount: \$307,940 Period: 05/02/14-12/31/17
3. *"Southern Illinois Partnership for Achievement in Math & Science (SIPAMS III)"* Co-Principal Investigators: Frackson Mumba, **Harvey Henson**, Mary Wright & Lingguo Bu Agency: Illinois Board of Higher Ed Amount: \$ 249,000 Period: 09/01/12-09/30/13
4. *"Science, Mathematics and Action Research for Teachers (SMART II Final Phase)"* Co-Principal Investigators: Mary Wright, Frackson Mumba, **Harvey Henson** & Lingguo Bu Agency: Illinois State Board of Education Math & Science Partnership Amount: \$50,000 Period: 09/01/12-08/31/13
5. *"Earthquake Awareness and Outreach Partnerships in Education"* Principal Investigator: **Harvey Henson** Agency: IEMA – Earthquake Hazard Reduction State Assistance Program Amount: \$13,900 Period: 02/12-12/12
6. *"Community of Problem-Solvers: Teachers Leading Problem-Based Learning in So. Illinois"* Co-Principal Investigators: Karen Renzaglia, **Harvey Henson**, Frackson Mumba & Lingguo Bu Agency: NSF Robert Noyce Master Teacher Fellowships Amount: \$ 3,250,000 Period: 10/01/11-10/31/17

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7. *"Science, Mathematics and Action Research for Teachers (SMART II)"*
Co-Principal Investigators: Mary Wright, **Harvey Henson** & Frackson Mumba
Agency: Illinois State Board of Education Math & Science Partnership
Amount: \$250,000 Period: 09/01/11–08/31/12
8. *"Southern Illinois Partnership for Achievement in Math & Science (SIPAMS II)"*
Co-Principal Investigators: Frackson Mumba, **Harvey Henson**, Mary Wright & Lingguo Bu
Agency: Illinois Board of Higher Ed Amount: \$ 311,000 Period: 04/01/11-09/30/12
9. *"Southern Illinois Fellowships for Teachers in Rural Schools (SIFTRS)"*
Co-Principal Investigators: Mary Wright, **Harvey Henson**, Frackson Mumba & Karen Renzaglia
Agency: NSF Robert Noyce Program Amount: \$73,725 Period: 08/01/10- 6/30/11
10. *"Southern Illinois Partnership for Achievement in Math & Science (SIPAMS)"*
Co-Principal Investigators: Frackson Mumba, **Harvey Henson**, Mary Wright & Lingguo Bu
Agency: Illinois Board of Higher Ed Amount: \$298,000 Period: 04/01/10-09/30/11
11. *"New Energy Workforce Systems (NEWS) Project to promote STEM Education"*
Co-Principal Investigators: **Harvey Henson**, Frackson Mumba & Jay Means
Agency: Department of Labor & West Kentucky Community and Technical College
Amount: \$30,000 Period: 08/09-08/12
12. *"Earthquake Awareness & Preparedness: PBS Video Production and Public Dissemination"*
Principal Investigator: **Harvey Henson**
Agency: IEMA/FEMA Amount: \$45,000 Period: 07/09-06/11
13. *"Green Scholarships: Training Undergraduates to Solve Environmental Problems"*
Co-Principal Investigators: Karen Renzaglia & **Harvey Henson**
Agency: NSF Scholarships in STEM Amount: \$600,000 Period: 04/01/09 - 07/31/14
14. *"Science, Mathematics and Action Research for Teachers (SMART)"*
Co-Principal Investigators: Mary Wright, Frackson Mumba & **Harvey Henson**
Agency: Illinois State Board of Education Math & Science Partnership
Amount: \$999,920 Period: 09/07-08/31/11
15. *"Heartland Ecological/Environmental Academic Research Training (HEART) GK-12"*
Co-Principal Investigators: Karen Renzaglia, **Harvey Henson**, F. Mumba, D. Gibson & S. Sipes
Agency: NSF – Graduate Teaching Fellows in K-12 Education (GK-12)
Amount: \$1,862,457 Period: 01/07-05/13
16. *"Remote Sensing Investigation at Campground Church Cemetery near Anna, Illinois"*
Principal Investigator: **Harvey Henson**
Agency: National Park Service Nat. Trails System Amount: \$15,135 Period: 01/07-07/09
17. *"Geo-Archaeology Investigation of Pueblo Ruins Near Dove Creek, CO"*
Principal Investigator: **Harvey Henson** Agency: Colorado Historical Society Assessment Cost Challenge Grant Amount: \$1,200 Period: 05/05-07/05

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18. *“Southern Illinois Math and Science Alliance (SIMSA)”*
Co-Principal Investigators: **Harvey Henson**, Kathy Pericak-Spector & Susan Pearlman
Agency: ISBE: Math & Science Partnerships & Regional Office of Education 02
Amount: \$35,000 Period: 01/05-12/05
19. *“The Young Earth Scientists (YES) Project - Scientific Literacy”*
Co-Principal Investigators: **Harvey Henson** & Robert DeHoet
Agency: Illinois State Board of Education Amount: \$72,000 Period: 01/01-01/02

VII. OTHER GRANTS, CONTRACTS AND DONATIONS (\$337,726 total support)

1. Undergraduate Computer Lab Upgrade for Department of Geology
Principal Investigators: **Harvey Henson** & Steven Esling Agency: SIUC Undergraduate
Student Tuition Surcharge for Technology Grant Amount: \$5,135 Period: 01/12-12/12
2. Undergraduate Computer Lab Upgrade for Department of Geology
Principal Investigators: **Harvey Henson** & Steven Esling Agency: SIUC Undergraduate
Student Tuition Surcharge for Technology Grant Amount: \$7,175 Period: 01/11-12/11
3. Geology 111/112 Student Lab Upgrade
Principal Investigators: **Harvey Henson** & Steven Esling Agency: SIUC Undergraduate
Student Tuition Surcharge for Technology Grant Amount: \$7,200 Period: 01/11-12/11
4. Undergraduate Computer Lab Upgrade for Department of Geology
Principal Investigators: **Harvey Henson** & Steven Esling Agency: SIUC Undergrad Tech Fee
Grant Amount: \$5,685 Period: 01/10-12/10
5. Geology 111/112 Student Computer Lab Upgrade
Principal Investigators: **Harvey Henson** & Steven Esling, Agency: SIUC Undergraduate Tech
Fee Grant, Amount: \$12,300 Period: 01/09-12/09
6. Department of Geology Undergraduate Computer Lab Upgrade
Principal Investigators: **Harvey Henson** & Steven Esling Agency: SIUC Undergrad Tech Fee
Grant Amount: \$5,450 Period: 01/07-12/07
7. Geology 111/112 Computer Lab Upgrade
Principal Investigators: **Harvey Henson** & Steven Esling Agency: SIUC Undergraduate
Technology Fee Grant Amount: \$5,450 Period: 01/07-12/07
8. Earth Science Inquiry at SIUC
Principal Investigators: **Harvey Henson** & Bob DeHoet, Agency: Saluki Kids Academy
Amount: \$4,769 Period: 01/06-7/06
9. Department of Geology Undergraduate Computer Lab
Principal Investigators: **Harvey Henson** & Steven Esling Agency: SIUC Undergraduate
Technology Fee Grant Amount: \$2,737 Period: 01/06-12/06

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10. Geology 111/112 Student Computer Lab Upgrade
Principal Investigators: **Harvey Henson** & Steven Esling Agency: SIUC Undergraduate
Technology Fee Grant Amount: \$5,475 Period: 01/06-12/06
11. Problem Based Learning Symposium and Teacher Training in Earth Science
Principal Investigator: **Harvey Henson** Agency: Southern Illinois Teaching Quality
Collaborative Program Amount: \$3,200 Period: Summer & Fall 2005
12. Mercury International, Inc. (\$80,000) Donation of the *iXL* seismic workstation processing
system, including software, hardware, training, support, and installation, 1996
13. PCI (\$70,000) Donation of geo-spatial image processing system software, 1996
14. Hewlett Packard (\$1,500) HP7600 plotter upgrade and computer equipment donation, 1995
15. Halliburton G. S. (\$120,000) Donation of digital seismic processing software package,
training & support, 1994
16. Hepp Drilling Co. (\$1,650) Donation of materials & installation of remote earthquake
seismograph, 1993

VIII. PUBLICATIONS

Journal Articles

1. Lingguo Bu, Frackson Mumba, Harvey Henson & Wright, M. (2013). "GeoGebra in
professional development: The experience of rural in-service elementary (K-8) teachers."
Mevlana International Journal of Education 3(3): 64-76.
2. Simeon Mbewe, Frackson Mumba, Mary Wright, Harvey Henson & Vivian Chabalengula
(2011). "Assessing Mathematics and Science Teachers' Reformed Teaching through
Examination of Inquiry-based Pedagogical Practices." *Journal of Research and Practice of
International Cooperation in Science, Mathematics and Technology Education*, 3 (1), 20-34.
3. Steven DiNaso, Vince Gutowski, Harvey Henson & Ryan Leonard (2010). "Lost graves, Trail
of Tears: A team effort of RTK DGPS, GIS, and GPR." *GPS World* 21(4): 49-50. **2010 On the
Edge Application Challenge Winner.**
4. Harvey Henson, Jr., Dawn E. Cobb, Steven Di Naso, Vince Gutowski & Al Strahan (2008).
"Geophysical and Archaeological Investigations to Relocate the Strahan Cemetery." *The
Living Museum* 70 (2-3): 3-14.
5. Steven DiNaso, Michael Sweeney, Vince Gutowski, Harvey Henson, James R. Gorny &
Donald Dove (2004). "Total Station and GPS Methodologies Aid Surface Mapping of
Archaeological Site." *Point of Beginning* 29(11): 26-27.
6. John A. Mundell, Greg B. Byer, Harvey Henson, Vince Gutowski & Donald E. Dove (2002).
"The Use of Geophysical Surveys for Archaeological Excavation Planning at the Mitchell

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Springs Ruins in Cortez, Colorado.” Symposium on the Application of Geophysics to Engineering and Environmental Problems, *SAGEEP* 2002: p10.

7. John L. Sexton, Harvey Henson, Jr., Paul Dial, Rector Koffi & Mamadou Coulibaly (1996). “Seismic Reflection and Georadar Investigation of Sikeston Ridge in the New Madrid Seismic Zone.” *Seismological Research Letters* 67(2): 10pp.
8. John L. Sexton, Harvey Henson, Jr., Rector Koffi, Mamadou Coulibaly & John Nelson (1996). “Seismic Reflection and Georadar Investigation of Barnes Creek Area in Southeastern Illinois.” *Seismological Research Letters* 67(2): 11pp.
9. Harvey Henson, Jr., John L. Sexton & James R. Staub (1996). “Age Estimation of the Cottage Grove Fault System (Illinois) from High-Resolution Seismic Reflection Studies of Coal Measures.” *International Journal of Coal Geology* 30(1-2): 25-36.
10. John L. Sexton & Harvey Henson, Jr. (1994). “Interpretation of Seismic Reflection and Gravity Profile Data in Western Lake Superior.” In: “*Potential Field Studies of Continental Rifts; the Great Lakes Region*”, edited by R.A. Gibb, W.J. Hinze & M.D.Thomas, *Canadian Journal of Earth Sciences* 31(4): 652-660.
11. John L. Sexton, Harvey Henson, Jr., Paul Dial & Kaye M. Shedlock (1992). “Mini-Sosie High Resolution Seismic Reflection Profiles along the Bootheel Lineament in the New Madrid Seismic Zone.” Eastern Section Seismological Society of America, *Seismological Research Letters Special Issue: The New Madrid Seismic Zone* 63(3): 297-307.
12. Harvey Henson, Jr. & John L. Sexton (1991). “Premine Study of Shallow Coal Seams Using High Resolution Seismic Reflection Methods.” *Geophysics* 56(9): 1494-1503.

Book Chapters and Reports

1. Lingguo Bu, Frackson Mumba, Mary Wright & Harvey Henson (2012). “Teaching Mathematics Using GeoGebra: Integrating Pedagogy and Content in Teacher Education.” In D. Martinovic, D. McDougall & Z. Karadag (Eds.), *Technology in Mathematics Education: Contemporary Issues* (pp. 91-115). Santa Rosa, CA: Informing Science Press.
2. Harvey Henson (2010). “Geophysical Investigation at Camp Ground Cemetery and Church near Anna, Illinois.” *Technical Report on Investigations*. The National Park Service National Trails System Office Santa Fe, New Mexico, 70pp.
3. Donald E. Dove, Dave Dove, Vince P. Gutowski, Harvey Henson, S. DiNaso, K. M. Gerhardt, P.F.Lacey, R. Mcbride, D. Mcbride, J. Till & L. Tradlener (November 2006). “Topographical mapping, geophysical studies and archaeological testing of an Early Pueblo II Village near Dove Creek, Colorado.” *Final Assessment Report*, Colorado Historical Society Assessment Grant No. 2004-AS-014, 139pp.
4. Sexton, J. L., Harvey Henson & Paul Dial (1992). “Joint USGS/SIU-C Mini-Sosie High Resolution Seismic Reflection Studies in the New Madrid Seismic Zone.” *Report of Investigations*, Department of Geology, Southern Illinois University.

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5. John L. Sexton, Harvey Henson, Jr. & Katharine M. Flanagan (1990). "Relationship between Bedrock Topography and Deep Crustal Rift Structures beneath Lake Superior." *GSA Penrose Conference Special Report*, Lake Tahoe, NV-CA.

Peer-Reviewed Expanded Abstracts

1. Lingguo Bu, Frackson Mumba, Harvey Henson, Mary Wright & Yazan Alghazo (2010). "GeoGebra integrated professional development: The experience of rural in-service elementary (K-8) teachers." In D. Novak, D. Martinovic & Z. Karadag (Eds.), *Proceedings of the First North American GeoGebra Conference*, pp.2-10. Ithaca, NY: Ithaca College.
2. Harvey Henson, John L. Sexton, Melissa Henson & Paul Jones (1997). "Georadar Investigation of Karst in a Limestone Quarry near Anna, Illinois." *Society of Exploration Geophysicists Expanded Abstracts, Technical Program with Biographies*, SEG 67th annual meeting, Dallas, TX, 5pp.
3. Harvey Henson, Jr., John L. Sexton & John L. Jobling (1989). "High Resolution Seismic Reflection Study of Shallow Coal Seams." *Society of Exploration Geophysicists Expanded Abstracts, Technical Program with Biographies*, SEG 59th annual meeting Oct. 29-Nov. 2, Dallas, TX, pp. 363-367.

Conference Proceedings, Transactions and Abstracts

1. Kailey Zalucha & Harvey Henson (2016). "Earthquake Awareness and Preparedness for Your Classroom." Science in the South Conference: Twentieth Annual Regional Conference on Science Education, Southern Illinois University, January 29, 2016, Carbondale, IL.
2. Harvey Henson & Duane Lickteig (2016). "Teaching Earth Science Using 3-D." Science in the South Conference: Twentieth Annual Regional Conference on Science Education, Southern Illinois University, January 29, 2016, Carbondale, IL.
3. Harvey Henson & Angela Box (2015). "NGSS Roundtable – Challenges and Issues in Implementing the New Standards." 36th Annual Mt. Vernon Conference, Oct. 30, 2015, Mt. Vernon, IL.
4. Angela Box & Harvey Henson (2015). "NGSS – Where Do I Start?" 36th Annual Mt. Vernon Conference, Oct. 30, 2015, Mt. Vernon, IL.
5. Karen Renzaglia, Lyle Dandridge, James Gray, Sedonia Sipes, Harvey Henson & Lingguo Bu (2014). *Master Teaching Fellows are Transforming Science and Math Education in Southern Illinois*. The Ninth Annual NSF Robert Noyce Teacher Scholarship Program Conference, June 18-20, 2014. Washington DC.
6. Christina Penna & Harvey Henson (2014). "The Effects of Education Intervention on Middle School Students' Knowledge and Preparedness of Earthquakes." Undergraduate Creative Activities and Research Forum, 2014 Abstracts, p.80, Southern Illinois University, April 7, 2014, Carbondale, IL.

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7. Dhitinut Ratnapradipa & Harvey Henson (2014). "Campus Emergency Response: An overview of Southern Illinois University Carbondale." Preparedness Summit, April 1-4, 2014, at Atlanta, GA.
8. Christina Penna, Ben Elliott & Harvey Henson (2014). "Earthquake Preparedness in the Classroom." Science in the South Conference: Eighteenth Annual Regional Conference on Science Education, Southern Illinois University, January 31, 2014, Carbondale, IL.
9. Lingguo Bu, Frackson Mumba, Mary Wright & Harvey Henson (2013). "Math and Science Teachers' Experiences of Online Professional Development." A paper presented at the 2013 annual conference of the Association of Teacher Educators, Atlanta, GA, Feb 16-19, 2013.
10. Harvey Henson (2012). "Cherokee burials and Trial of Tears episode at Camp Ground Cemetery near Anna, Illinois." Proceedings of Midwest Bioarchaeology and Forensic Anthropology Association (BARFAA) annual meeting, Oct. 26-27, 2012, Carbondale, IL.
11. Lingguo Bu, Harvey Henson, Karen Renzaglia, Frackson Mumba, Mary Wright & Jennifer Janasie (2012). "Toward a community of problem solvers: SRET and Noyce Master Teacher Fellowship in Southern Illinois." 2012 Midwest Noyce Regional Conference, "Common Core, NGSS (New Generation Science Standards), Digital Learners: STEM Teaching at the Crossroads", Oct 4-5, at IUPUI, Indianapolis, IN.
12. Karen Renzaglia, Natalie Mountjoy, Jennifer Janasie, Harvey Henson & Julie Wittenborn-Sikorski (2012). "Research Activities and Problem-based Learning Experiences of Rural Teachers in Southern Illinois." 2012 NSF Robert Noyce Teacher Scholarship Program Conference on May 23-25, Washington, DC.
13. Lingguo Bu, Frackson Mumba, Harvey Henson & Mary Wright (2012). "Online professional development for elementary mathematics: A design framework." Paper presented at the Conference of Association of Teacher Educators (ATE), Feb11-15, 2012, San Antonio, TX.
14. Simeon Mbewe, Vivien M. Chabalengula, Frackson Mumba, Harvey Henson, Lingguo Bu & Mary Wright (2011). "Pre-service K-8 Science Teachers' Conceptual understanding of Science Process Skills." Paper presented at the Association of Teacher Educators Conference, Philadelphia, PA, August 5-9, 2011.
15. Chabalengula, V. M., Frackson Mumba, Harvey Henson, Lingguo Bu & Mary Wright (2011). "In-service Teachers' Perceived Benefits and Difficulties of Inquiry." Paper presented at the summer 2011 Association of Teacher Educators Conference, Philadelphia, PA, August 5-9, 2011.
16. Frackson Mumba, Vivien M. Chabalengula, Harvey Henson, Lingguo Bu & Mary Wright (2011). "Elementary Education In-service Teachers' Inquiry Instructional Practice." Paper presented at the summer 2011 Association of Teacher Educators Conference, Philadelphia, PA, August 5-9, 2011.
17. Lingguo Bu, Frackson Mumba, Harvey Henson, Mary Wright & Yazan Alghazo (2011). "Problem Solving Using GeoGebra: The Experience of In-service Mathematics and Science Teachers." Paper presented at the North American GeoGebra Conference, Toronto, Ontario, Canada, June 17-18, 2011.

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18. Frackson Mumba, Vivien M. Chabalengula, Harvey Henson & Karen Lind (2011). "Primary and Middle school Science Teachers' Instructional Practice and their Perceived Benefits and Difficulties of Inquiry." Paper presented the 4th Redesigning Pedagogy International Conference, Singapore, May 30-June 1, 2011.
19. Lingguo Bu, Frackson Mumba, Mary Wright & Harvey Henson (2011). "Improving teachers' attitudes toward mathematics teaching: Model-Centered Learning and open source learning technology." In M. Koehler & P. Mishra (Eds.), *Proceedings of Society for Information Technology & Teacher Education*, International Conference 2011, pp.180-184. Chesapeake, VA: AACE.
20. Erin Miles, Frackson Mumba, Miranda Tucker, Lingguo Bu, Mary Wright & Harvey Henson (2011, April). "In-service teachers' beliefs about mathematics teaching and learning." Poster presented at the 2011 MSP Regional Conference, San Francisco, CA.
21. Simeon Mbewe, Frackson Mumba, Harvey Henson, Bu, Lingguo, Vivien Chabalengula & Mary Wright (2011). "MSP In-Service Teachers' Instructional Practice and their Perceived Benefits and Difficulties of Inquiry." Paper presented at Mathematics and science partnership Conference, Baltimore, MD, February 14-17, 2011.
22. Harvey Henson, Frackson Mumba, Scott Hodgson, Christine Black-Corely & Dustan Heidel (2011). "Understanding earthquake awareness among Southern Illinois school children." Association of Teacher Educators (ATE) 2011 91st Annual Meeting, Orlando, Florida, February 12-16, 2011, *Program Abstracts*, p 49.
23. Lingguo Bu, Frackson Mumba, Harvey Henson & Mary Wright (2011). "Reflecting on the purpose and practice of mathematics and science education through video-based historical intervention." Paper presented at the 2011 Conference of the Association of Teacher Educators (ATE), Orlando, FL, February 12-16, 2011, *Program Abstracts*.
24. Harvey Henson & Frackson Mumba (2011). "Energy Concepts and Careers: Project NEWS (New Energy Workforce Systems)." Paper presented at the Science in the South Conference: Fifteenth Annual Regional Conference on Science Education, Southern Illinois University, January 28, 2011, Carbondale, IL.
25. Frackson Mumba, Harvey Henson, David Gibson, Karen Renzaglia & Vivien M. Chabalengula (2010). "Scientists' Perceived Benefits and Difficulties of Inquiry in US Schools." Paper presented at the Science, Technology, Engineering and Mathematics (STEM) International conference, Queensland University of Technology, Brisbane, Australia, Nov 26-27, 2010.
26. Vivien M. Chabalengula, Frackson Mumba, Harvey Henson & Lingguo Bu (2010). "Design, Implementation & Impact of Mathematics and Science Project on US Primary and Middle School Teachers." Paper presented at the Science, Technology, Engineering and Mathematics (STEM) International conference, Queensland University of Technology, Brisbane, Australia, November 26-27, 2010.
27. Lingguo Bu, Frackson Mumba, Willy Hunter, Harvey Henson & Mary Wright (2010). "Designing online professional development for rural in-service mathematics and science teachers: The case of mathematical problem solving." The 2010 International Convention of

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the Association for Educational Communications and Technology (AECT), October 26-30, 2010, Anaheim, CA.

28. Frackson Mumba, Vivien M. Chabalengula, Simeon Mbewe & Harvey Henson (2010). "Teacher-Leaders' Reformed and Inquiry Science Teaching & Learning." Paper presented at the Summer Conference of the Association of Teacher Educators (ATE), August 7-11, 2010, Kansas City, MO.
29. Simeon Mbewe, Frackson Mumba, Vivien M. Chabalengula, Harvey Henson & Mary Wright (2010). "Exploring Teacher-Leaders' Reformed Teaching through Examination of Design and Implementation." Paper presented at the Summer Conference of the Association of Teacher Educators (ATE), August 7-11, 2010, Kansas City, MO.
30. Lingguo Bu, Frackson Mumba, Mary Wright & Harvey Henson (2010, August). "Integrating dynamic software in professional development: The initial experience of rural in-service elementary (K-8) teachers." Paper presented at the Summer Conference of the Association of Teacher Educators (ATE), August 7-11, 2010, Kansas City, MO.
31. Juliette Donatelli, David J. Gibson, Karen Renzaglia, Harvey Henson, Frackson Mumba, Sedonia D. Sipes & Kris Schachel (2010). "Bridging the gap, building the future: STEM fellows teaching global change in primary education." Presented at 95th Ecological Society of Am. (ESA) Annual Mtg. Aug 1-6, Pittsburgh, PA.
32. Christine Black-Corely, Harvey Henson, Frackson Mumba, Scott Hodgson & Andrew Podoll (2010). "Earthquake education and awareness initiative in Southern Illinois." 102nd Annual Meeting, Millikin University, Decatur, Illinois, April 9-10, 2010, *Transactions of the Illinois State Academy of Science*, Supplement to Volume 103.
33. Frackson Mumba, Vivien M. Chabalengula, Simeon Mbewe & Harvey Henson (2010). "Teachers' beliefs about Reformed and Inquiry-based Science Teaching & Learning." Paper presented at the Midwest Association of Teacher Educators (MWATE), March 26, 2010, Urbana, IL
34. Simeon Mbewe, Frackson Mumba, Mary Wright, Harvey Henson & Vivien M. Chabalengula (2010). "Assessing Math and Science Teachers' Reformed Teaching through Examination of Design, and Implementation." Paper presented at the Midwest Association of Teacher Educators (MWATE) Conference, March 26, 2010, Urbana, IL.
35. Vivien Chabalengula, Simeon Mbewe, Frackson Mumba, Harvey Henson & Mary Wright (2010). "Elementary and Middle School Science Teachers' Instructional Practices." Paper presented at the Midwest Association of Teacher Educators (MWATE) Conference, March 26, 2010, Urbana, IL.
36. Erin Wilson-Miles, Frackson Mumba, Vivien M. Chabalengula, Simeon Mbewe, Harvey Henson & Mary Wright (2010). "A comparison of Pre and In-service Teachers' Perception of Chemistry." Paper presented at the 90th Annual Conference of the Association of Teacher Educators, February 13-17, 2010, Chicago, IL.
37. Simeon Mbewe, Frackson Mumba, Erin Wilson-Miles, Vivien M. Chabalengula, Harvey Henson & Mary Wright (2010). "Elementary Education Teachers' Perceived Difficulties and

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Benefits for Inquiry.” Paper presented at the 90th Annual Conference of the Association of Teacher Educators, February 13-17, 2010, Chicago, IL.

38. Selena Sasser, Simeon Mbewe, Frackson Mumba, Vivien M. Chabalengula, Erin Wilson-Miles & Harvey Henson (2010). “Resident Scientists’ Perceived Instructional Training Needs for High School Science Teaching.” Paper presented the 90th Annual Conference of the Association of Teacher Educators, February 13-17, 2010, Chicago, IL.
39. Frackson Mumba, Harvey Henson, Jay Means & Mesfin Tsige (2010). “Everyday Forces – Investigating Movement.” Science in the South Conference: 14th Annual Regional Conference on Science Education, Southern Illinois Univ., Jan 29, 2010, Carbondale, IL.
40. Julie Wittenborn-Sikorski, Denise Brown Shirley Krienert, Harvey Henson & Lilianna Lefticariu (2010). “Field Trips and Hands-on Activities in Elementary Geology.” Science in the South Conference: 14th Annual Regional Conference on Science Education, Southern Illinois University, Jan 29, 2010, Carbondale, IL.
41. Simeon Mbewe, Frackson Mumba, Mary Wright, Harvey Henson & Vivien M. Chabalengula (2009). “Effect of Interactive Computer Simulations on Elementary Education Teachers’ Understanding of Light Matter Interactions.” Paper presented at Joint APS, AAPT, and SPS Meeting, San Marco, TX, Oct 22-24, 2009.
42. Frackson Mumba, Simeon Mbewe, Vivien Chabalengula, Erin Wilson, Mary Wright, Harvey Henson & Willy Hunter (2009). “In-service elementary teachers’ perceived Image of Chemistry, Cognitive abilities and Affection for Chemistry.” Paper presented at American Chemical Society, 61st Southeast Regional Meeting, San Juan, Puerto Rico, Oct. 2009.
43. Karen Renzaglia, Harvey Henson, David Gibson, Frackson Mumba, Sedonia Sipes & Scott Schuette (2009). “SIUC HEART GK-12 Partnerships for Science Education.” 101st Annual meeting, April 17-18, 2009, *Transactions of the Illinois State Academy of Science*, Supplement to Volume 102: 66.
44. Joseph F. Batir & Harvey Henson (2009). “Post-Acquisition Processing for Ground-Penetrating Radar Surveys in Cemeteries.” 101st Annual meeting, April 17-18, *Transactions of the Illinois State Academy of Science*, Supplement to Volume 102: 43.
45. Joseph F. Batir & Harvey Henson (2009). “Verification of Grave Sites Using Geophysical Methods at the Holliday Cemetery.” *Geological Society of America Abstracts with Programs*, NC-GSA, Rockford, IL, April 2-3.
46. Scott Schuette, Karen Renzaglia, Harvey Henson, David Gibson, Frackson Mumba & Sedonia Sipes 2009. “Overview and Description of the SIUC HEART GK-12 Program.” Presented at the 2009 GK-12 Annual Meeting, Washington, D.C., Mar 2009.
47. Harvey Henson (2009). “3-D Perspectives on Earth Science: Teaching Students to See Geology.” Science in the South Conference: 13th Annual Regional Conference on Science Education, Southern Illinois University, January 30, 2009, Carbondale, IL.

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48. Andrew Podoll, Sally O'Leary, Harvey Henson, Frackson Mumba & Nicholas Pinter (2008). "NSF GK-12 Partnership for Effective Earth Science Education." *Geological Society of America Abstracts with Programs*, NC-GSA, Evansville, IN, April 24-25, 2008.
49. Harvey Henson, Steven Di Naso, V. Gutowski, Dawn E. Cobb & Aneesa Lehman (2008). "A Multidisciplinary Geological, Geophysical and Archaeological Approach to Relocate the Missing Strahan Cemetery." *Geological Society of America Abstracts with Programs*, NC-GSA, Evansville, IN, April 24-25, 2008.
50. Joseph F. Batir & Harvey Henson (2008). "Magnetic Techniques and Results at a Prehistoric Early Pueblo II Village Site." *Geological Society of America Abstracts with Programs*, NC-GSA, Evansville, IN, April 24-25, 2008.
51. *The Icy Winter of 1838-1839: The Cherokee Trail of Tears through Southern Illinois*, Panel: Rowena McClinton, Harvey Henson, Sue Glasco, Joe Crabb, Cheryl Jett, Gary Hacker, 2008 Illinois History Symposium, The Illinois State Historical Society, Millikin University, Decatur, Illinois, March 13-14, 2008.
52. Harvey Henson, Frackson Mumba & Mary Wright (2008). "Science, Mathematics and Action Research for Teachers (SMART) program at SIUC: Design framework and challenges." ISTA Annual Conference, Peoria, IL.
53. Harvey Henson, Jr., Dawn E. Cobb, Steven Di Naso, Vince Gutowski & Al Strahan (2007). "Geophysical and Archaeological Investigations to Relocate Forgotten Cemeteries: A Case Study from Southern Illinois." Midwest Bioarchaeology and Forensic Anthropology Association, *Transactions of Annual Meetings*, November 2-4, 2007, Midwest Museum of Natural History, Sycamore, Illinois.
54. Aneesa Lehman, O. Reddy, Colleen Lindsay & Harvey Henson (2007). "Locating Possible Trail of Tears Graves with Ground-Penetrating Radar." 99th Annual Meeting, *Transactions of Illinois State Academy of Science* 100(1): 35-36.
55. Harvey Henson, Jr., Aneesa Lehman, Vince Gutowski & Steven Di Naso (2006). "Locating the Lost Strahan Cemetery Using Non-Invasive Geological and Geophysical Remote Sensing Techniques." 98th Annual Meeting, April 20-22, The Field Museum, Chicago, IL, *Transactions of the Illinois State Academy of Science* 99(1): 46.
56. Harvey Henson, Jr. & Rachel Skinner (2006). "Faunal Taxa and Depositional Environment of the Energy Shale in Williamson County, Illinois." 98th Annual Meeting, April 20-22, The Field Museum, Chicago, IL, *Transactions of Illinois State Academy of Science* 99(1): 46.
57. Harvey Henson & Scott Hodgson (2006). "Southern Illinois Earthquake Preparedness for the Classroom." Science in the South Conference: Tenth Annual Regional Conference on Science Education, Southern Illinois University, March 10, 2006, Carbondale, IL.
58. Harvey Henson, Jr., Vince Gutowski, Steven Di Naso, Donald E. Dove & Dave Dove (2005). "Geophysical Archaeological Investigations of the Champagne Springs Group and Mitchell Springs Ruins in Southwest Colorado." Geological Society of America North-Central Section 39th Annual Mtg, May 19-20, Minneapolis, MN, *GSA Abstracts with Programs*, 37(5): 93.

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59. Steven Di Naso, Vince Gutowski, Harvey Henson, Greg Beyer & Donald Dove (2005). "Applications of GIS and Geophysics to Subsurface Archaeological Exploration at the Champagne Springs Ruins Site, Colorado." Annual Meeting of the West Lakes Division of the Association of American Geographers, Iowa City, IA
60. Steven DiNaso, Harvey Henson, Donald Dove & Vince Gutowski (2005). "GIS and Geophysical Mapping Technologies Applied to Archaeological Investigations at Mitchell Springs Ruins, Southwestern Colorado.", 97th Annual Meeting, Galesburg, IL, April 8-9, 2005, *Transactions of Illinois State Academy of Science*, 98(1).
61. Robert DeHoet & Harvey Henson (2005). "Inquiry Learning Using Real & Virtual Learning Environments the Young Earth Scientists (YES)." North-Central Section 39th Annual Meeting, May 19-20, Minneapolis, MN, *GSA Abstracts with Programs* 37(5): 25.
62. Harvey Henson, Jr. & Phillip Szymcek (2005). "Locating Lost Graves along the Trail of Tears Using Non-Invasive Geophysical Methods. Geological Society of America North-Central Section 39th Annual Mtg., May 19-20, Minneapolis, MN, *GSA Abstracts with Programs* 37(5): 93.
63. Vince Gutowski, Steven Di Naso & Harvey Henson (2004). "A Precision, Non-intrusive Survey of Pueblo Ruins in Southwestern Colorado." 100th Annual Meeting of the Association of American Geographers, *Abstracts with Programs*, Philadelphia, PA, March 15-19.
64. Harvey Henson, Christopher Adams, Vince Gutowski, Donald E. Dove, John A. Mundell & Greg B. Byer (2003). "Magnetic Exploration & Data Processing at the Mitchell Springs Ruins in Cortez, Colorado." Geological Society of America Rocky Mountain Section Mtg., May 7-9, Ft. Lewis College, Durango, CO, *GSA Abstracts with Programs* 35(5).
65. Robert DeHoet & Harvey Henson (2003). "Young Earth Scientists (YES): an Inquiry-Based Paleontology Project Fostering Cooperation and Collaboration between Geographically Distant Schools." Geological Society of America Rocky Mountain Section Mtg., May 7-9, Ft. Lewis College, Durango, CO and National Association of Geoscience Teachers Special Session: Classroom and Laboratory Demonstrations of Geologic Phenomena, *GSA Abstracts with Programs* 35(5).
66. Harvey Henson (2001). "So you want to be a Geologist: Earth Science mentoring." Science in the South Conference: Fifth Annual Regional Conference on Science Education, Southern Illinois University, March 9, 2001, Carbondale, IL.
67. Shirley Krienert, Harvey Henson & Robert DeHoet (2000). "Geology Rocks! Multidisciplinary Learning Using Rocks and Fossils." Proceedings of 48th Annual NSTA Meeting, Orlando, Florida.
68. Harvey Henson (2000). "Layered Mentoring: Involving Students in Earth Science Mentoring." Science in the South Conference: Fourth Annual Regional Conference on Science Education, Southern Illinois University, March 10, 2000, Carbondale, IL.
69. Wanda H. Dillow, Heather Reynolds, S. Waterman, Debbie Fears, P. Barrette & Harvey Henson (1999). "Fourth Grade Problem-Based Learning across the Curriculum." 20th Annual Mt. Vernon Teachers Conference, Oct. 28-29, 1999, Mt. Vernon, IL.

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70. Robert DeHoet, Harvey Henson & Wanda Dillow (1999). "University and Community Collaboration in the Design of a Problem-Solving Learning Experience for 4th Graders Studying Earth Science." 91st Annual Meeting, Carbondale, IL, April 9-10, 1999, *Transactions of the Illinois State Academy of Science* 90(1).
71. Harvey Henson, Robert DeHoet, Kelly Webb, Sean Belcher, Hunter Bruns, Phillip Szymcek, Seth Benefiel, Chad Skelcher & Hope David (1999). "Pennsylvanian Bio-Diversity Evidence from the Energy Shale at Carterville, Illinois." 91st Annual Meeting, Carbondale, IL, April 9-10, 1999, *Transactions of the Illinois State Academy of Science* 90(1): 76.
72. Harvey Henson, John L. Sexton, Greg Byer, Quentin Graham, Mamadou Coulibaly & Rector Koffi (1996). "Georadar Investigation of Filled Karst in a Limestone Quarry." GSA 45th annual Southeastern Section Mtg., March 14-15, 1996, Jackson, MS, *GSA Abstracts with Programs* 28(2): 15.
73. Mamadou Coulibaly, John L. Sexton, Harvey Henson, Frank Lehman & Alan Green (1996). "Acquisition and Processing of Georadar from the Chott Rharsa Basin of Southern Tunisia." GSA 45th annual Southeastern Section Mtg., Mar 14-15, Jackson, MS, *GSA Abstracts with Programs* 28(2): 8.
74. John L. Sexton, Harvey Henson, Ryan Fairfield, Robert Corruccini & Doug Armstrong (1996). "Magnetic Surveying of New Seville Archaeological Sites near St. Ann's Bay, Jamaica W.I." GSA 45th annual Southeastern Section Mtg., March 14-15, Jackson, MS, *GSA Abstracts with Programs* 28(2): 43.
75. John L. Sexton, Harvey Henson, Jr., Alan Green, Frank Lehman, Mamadou Coulibaly & Heinrich Horstmeyer (1995). "Georadar Profiling of the Chott Rharsa Basin of Southern Tunisia." Soc. of Exploration Geophysicists, *Program with Abstracts*, International Conference, St. Petersburg, RUSSIA.
76. Harvey Henson, Jr. & John L. Sexton (1992). "Use of High Resolution Seismic Reflection in Premine Study of Shallow Coal Deposits." *Proceedings of 4th Conference on Ground Control for Midwestern U.S. Coal Mines*, Edited by Y. P. Chugh & G. A. Beasley, Mt. Vernon, Illinois, Nov. 2-4, supplement pages 1-17.
77. Yubo Du, John L. Sexton, Harvey Henson, Jr. & Shipping Wang (1992). "Seismic Tomographic Investigations of Floor Strata Beneath a Coal Pillar in an Underground Coal Mine." *Proceedings of 4th Conference on Ground Control for Midwestern U.S. Coal Mines*, Mt. Vernon, IL, Nov. 2-4.
78. John L. Sexton, Yubo Du, Shipping Wang & Harvey Henson, Jr. (1992). "Seismic Refraction Tomography Experiment for Evaluation of the Structure and Seismic Velocity of Floor Strata Beneath a Coal Pillar in an Underground Coal Mine." *Proceedings of Coal, Energy and Environment*, Ostrava, Malenovice, CZECHOSLOVAKIA, Oct. 12-16, pp. 1-26.
79. John L. Sexton & Harvey Henson, Jr. (1992). "New Madrid Seismic Zone Geophysical Research at Southern Illinois University Carbondale." CUSEC (Central U.S. Earthquake Consortium) *Special Volume on CUSEC/FEMA Research Summit Workshop*, Memphis, TN, July 29-30.

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80. John L. Sexton & Harvey Henson, Jr. (1992). "Seismic Reflection and Gravity Profile Models of Data from Lake Superior." AGU Spring Mtg. May 12-16, Montreal, Canada, *EOS Transactions Supplement*, 73(14): 320.
81. John L. Sexton & Harvey Henson, Jr. (1991). "Lake Superior Bedrock Topography and Rift Structures." GSA Fall Mtg., San Diego, CA, *GSA Program with Abstracts* 23(5): 138.
82. John L. Sexton, Harvey Henson, Jr., Paul Dial, Denise Victory & Kaye M. Shedlock (1991). "Mini-Sosie High Resolution Seismic Reflection Surveys in the New Madrid Seismic Zone." 63rd Ann. Mtg. Eastern Section Seismology Society of Am., *Programs and Abstracts* 81, Memphis, TN, October 14.
83. Harvey Henson, Jr., John L. Sexton, Denise Victory & Kaye M. Shedlock (1991). "Mini-Sosie High Resolution Seismic Reflection Surveys along the Blytheville Arch in the New Madrid Seismic Zone." American Geophysical Union, *EOS Transactions* 72(17): 273.
84. Yubo Du, John L. Sexton, Harvey Henson, Jr. & Shipping Wang (1991). "Seismic Tomographic Exploration of Floor Strata in an Underground Coal Mine." American Geophysical Union, *EOS Transactions* 72(17): 193.
85. John L. Sexton, Harvey Henson, Jr., Paul Dial & Kaye M. Shedlock (1990). "Mini-Sosie High Resolution Seismic Reflection Survey of the Bootheel Lineament in the New Madrid Seismic Zone." American Geophysical Union, AGU Fall Mtg., San Francisco, CA, *EOS Transactions* 71(43): 1436.
86. John L. Sexton & Harvey Henson, Jr. (1990). "Geophysical-Geomorphology Studies in the New Madrid Seismic Zone." *Programme and Abstracts*, XXII General Assembly of European Seismological Commission, Barcelona, SPAIN, Sept. 17-22, p. 133.
87. John L. Sexton & Harvey Henson, Jr (1990). "Interpretation of Seismic Reflection and Gravity Profile Data in Lake Superior." *Proceedings of International Meeting of European Geophysical Society*, Sophia, BULGARIA.
88. Harvey Henson, Jr., John L. Sexton & James R. Staub (1990). "Interpretations of Subsidiary Faulting along the Cottage Grove Fault System from High Resolution Seismic Reflection Methods." *GSA Abstracts with Programs* 22(5): 13, NCGSA 24th annual meeting April 26-27, Macomb, IL.
89. Yubo Du, John L. Sexton & Harvey Henson, Jr. (1990). "Geotomographic Exploration of Floor Strata in an Underground Coal Mine." *GSA Abstracts with Programs* 22(5): 8, NCGSA 24th annual meeting April 26-27, Macomb, IL.
90. Shipping Wang, John L. Sexton & Harvey Henson, Jr. (1990). "In-Mine Seismic Studies of Floor Strata beneath a Coal Pillar." *GSA Abstracts with Programs* 22(5): 48, presented at the NCGSA 24th annual meeting April 26-27, Macomb, IL.
91. Harvey Henson, Jr., Trent Dewees & Richard Fluegeman, Jr. (1986). "Paleontology of the Waldron Formation (Silurian; Wenlockian) near Muncie, Indiana." edited by D.R. Winslow, *Proceedings of the Indiana Academy of Science* 95: 305, Spring and Fall Meetings, Indianapolis, IN.

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Dissertation and Thesis

“Middle School Students’ Earthquake Content and Preparedness Knowledge - A Mixed Method Study.” Ph.D. Dissertation, Harvey Henson, Jr., (January 2015). Southern Illinois University-Carbondale, IL, 240pp.

“High Resolution Seismic Reflection Study of Shallow Coal Seams near Harco, Illinois.” Master's Thesis, Harvey Henson, Jr., (Aug 1989). Southern Illinois University-Carbondale, IL, 178pp.

IX. INVITED PRESENTATIONS, LECTURES AND WORKSHOPS (select list)

1. *Historical and Geophysical Evidence for the Tragic Trail of Tears Episode at Camp Ground*, Presented at the Southern Illinois Association of Museums (SIAM) Annual meeting, Camp Ground Church, Anna, IL, August, 2015
2. *Earthquake Safety and Preparedness in Southern Illinois Schools*, Presented at Franklin and Williamson Counties Superintendents Board meeting, Marion, IL Sept. 16, 2010
3. *Earthquake Awareness and Preparedness*, Presented at the Williamson County Earthquake Conference, Marion IL, April 8, 2010
4. *Geophysical and Archaeological Study to Relocate the Strahan Cemetery near Tilden, IL*, Illinois State Museum, Springfield, IL State Museum Lecture Series, Nov. 14, 2007
5. *Remote Sensing at Camp Ground Church Cemetery*, Spring Conference, Genealogy Society of Southern Illinois, John A. Logan College, Carterville, IL, June 9, 2007
6. *Locating Unmarked Graves along the Trail of Tears Using Ground-Penetrating Radar*, Poster presentation at Delta Institute Symposium, Student Health Center, SIUC, April 24, 2007
7. *Preliminary Results of Geophysical Investigations at Camp Ground Cemetery*, Presentation at Trail of Tears Association, Illinois Chapter general spring meeting, April 14, 2007
8. *Earthquake Awareness and Preparedness*, Presentation for Building Emergency Response Team (BERT) Meeting, Lesar Law auditorium, SIUC, April 3, 2007
9. *Imaging Fractures and Dissolution Features at the Anna Quarry with Ground-Penetrating Radar*, Illinois State Geological Survey, Urbana, IL. Mar. 12, 2007
10. *“Suddenly... on an Average Day Earthquake Awareness and Preparedness*, Lecture for PYSC 489, John Snyder, Instructor, Life Science II Rm 244, SIUC, Mar. 8, 2007
11. *Regional Disaster Preparedness and Response: Earthquake Threat in Southern Illinois*. hosted by Illinois State Representative John Bradley & Williamson County Emergency Management Agency, Southern Illinois Emergency Preparedness Committee, Marion, IL, Nov 8, 2006
12. *Locating the Lost Strahan Cemetery Using Geophysical and Geological Imaging Methods*, Marion Lions Club meeting, Marion, IL, July 12, 2006

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13. *Understanding the Southern Illinois Earthquake Threat*, Rotary Club, Carbondale, IL, July 12, 2006
14. *"Suddenly... On an Average Day" Project Update*, Harvey Henson and Scott Hodgson, Multi-Natural Hazards Partnership Forum, Southeast Missouri State University, Cape Girardeau, MO, May 17, 2006
15. *Earthquake Preparedness: "Suddenly... On an Average Day"*, Foxcroft Ward Emergency Preparedness Fair, Marion, IL, April 8, 2006
16. *New Madrid Seismic Zone and Earthquake Overview*. Unity Point School, Carbondale, IL, April 6, 2006
17. *Overview of a New Earthquake Preparedness DVD*, Illinois Emergency Management Agency, Keith E. Chambers, IEMA Earthquake Coordinator, Springfield, IL, Mar 7, 2006
18. *Earthquakes in Southern Illinois*, 4-H group, Scottsboro Baptist Church, Marion, IL, Mar 3, 2006
19. *Uncovering the Anasazi Culture of Southwestern Colorado Using High-resolution Geophysical Investigation Methods*, Southern Illinois Earth Science Club, July 14, 2005
20. *Geophysical Methods and Remote Sensing Techniques Used in Archaeological Investigations: Examples from Pueblo Sites in Colorado and the Trail of Tears in Illinois*, Southeast Missouri State University, Cape Girardeau, MO, Dept. of Anthropology, Feb. 24, 2005
21. *Learning in Retirement Program: Earthquakes and Plate Tectonics*, SIUC Continuing Education course, taught Feb-March 2004
22. *Geo-Archaeological Investigation of the Mitchell Springs Ruin Group*, Geography Awareness Week, Department of Geology/Geography, Eastern Illinois Univ., Charleston, IL, Nov 20, 2003
23. *Geo-Archaeology Studies of Anasazi Ruins in CO*, Lions Club, Carbondale, IL, Mar 13, 2002
24. *The New Madrid Seismic Zone*, Lions Club, Carterville, IL, Oct. 11, 2001
25. *Earthquake Awareness and Preparedness: Understanding the New Madrid Earthquake Threat*, Mae Smith Hall Student Dormitory, SIUC campus, Carbondale, IL, Sept. 21, 2000
26. *Earthquakes and Tectonics of the North Anatolian Fault Zone*, SIUC Turkish Student Association Annual Banquet and Survivors Benefit, Carbondale, IL, Oct. 28, 1999
27. *Southern Illinois before the Age of the Dinosaurs*, Johnston City Public Library, Johnston City, IL, July 15, 1999
28. *Earthquakes in Southern Illinois*, Recycled Youth Meeting, Herrin First Christian Church, Herrin, IL, Oct. 10, 1998
29. *New Madrid Earthquakes and Plate Tectonics*, Symposium presented at Hugh Malin Campus, Pinckneyville Jr. High School, Pinckneyville, IL, Dec. 3, 1996

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30. *Earthquakes Here?... The New Madrid Seismic Zone*, SIUC Student Development Program Fundraiser for Kobe Japan Earthquake Disaster Relief, Student Center Auditorium, SIUC, Carbondale, IL, Feb. 6, 1995
31. *New Madrid Seismic Zone and Local Earthquakes*, Lions Club, Carbondale, IL, May, 1994
32. *New Madrid Seismic Zone Earthquakes*, Du Quoin Kiwanis Club banquet keynote address, Du Quoin, IL, May 6, 1993
33. *Why Do Earthquakes Occur in Southern Illinois?*, Science and Literacy Program at Elverado High School, Elkhart, IL, Feb. 2, 1991
34. *Earthquakes and New Madrid Seismicity*, Illinois Department of Public Health Earthquake Preparedness Conference at Rend Lake Community College, Ina, IL, Nov. 8, 1990.
35. *Earthquake Awareness and Preparedness*. Boomer Hall Student Dormitory, SIUC campus, Carbondale, IL, Oct. 16, 1990
36. *Earthquake Awareness and Preparedness*, Health and Emergency Fair, The Gazette Democrat, Anna, IL, Sept. 13, 1990
37. *Seismicity of the Southern Illinois Area*, Parish Park Christian Church, Marion, IL June 1990
38. *The Mechanics of Earthquakes and Seismicity in the New Madrid Rift Complex*. Earthquake Preparedness for Emergency Services Personnel at Southeastern Illinois College, Harrisburg, IL, April 5, 1990

X. RESEARCH PROJECTS (select list)

- 2012-pres. Using 3-D anaglyph technology and maps to teach plate tectonic and related earth science concepts to teachers and their students: A phenomenon to fulfill performance expectations required for NGSS
- 2010-pres. GeoGebra and integrated mathematics professional development for in-service elementary (K-8) teachers, Illinois Board of Higher Education supported
- 2009-pres. Designing online professional development for rural in-service mathematics and science teachers: The SMART Graduate Program at Southern Illinois University Carbondale www.smart.siu.edu, Illinois State Board of Education supported
- 2008-pres. Investigating Earthquake Awareness and Preparedness among Elementary and Middle School Students in Southern Illinois, funded in part by IEMA/FEMA & SIUC
- 2006-2008 Location of unmarked graves along the Trail of Tears in Southern Illinois using high-resolution geophysical methods, funded by National Park Service
- 2006-2008 Lost Strahan Cemetery investigation using geological and geophysical imaging techniques, supported by Department of Geology at SIUC
- 2004-2006 Geo-archaeological investigation of Champagne Springs Group at Delores Canyon, CO, partially supported by Colorado Historical Society Assessment Grant

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- 2001-pres. Inquiry-based learning using real and virtual geological environments for the Young Earth Scientist (YES) project, Illinois State Board of Education supported
- 2001-2003 Geophysical archaeological investigations at the Mitchell Springs Ruins, Cortez, CO, partially supported by Colorado Historical Society, Southern Illinois University Carbondale and Eastern Illinois University
- 1997 Ground-penetrating radar investigation of limestone karst in quarry near Anna, IL, Partially supported by Sensors & Software, Ontario, CA and Department of Geology, Southern Illinois University Carbondale
- 1996-2006 Pennsylvanian faunal and floral bio-diversity in the Energy Shale member of the Carbondale Formation near Carterville, IL, supported by Department of Geology, Southern Illinois University Carbondale
- 1996 Geophysical archaeological investigation of a 17th century sugar-cane plantation and African slave cemetery in Barbados, supported by Corruccini Family Trust
- 1995 Neotectonic study of shallow faults using seismic reflection and ground-penetrating radar methods near Metropolis, IL, supported by Illinois State Geological Survey
- 1994 Ground-penetrating radar study of neotectonic fault reactivation along Sikeston Ridge and other geomorphologic features in the New Madrid Seismic Zone, supported by Department of Geology, Southern Illinois University Carbondale
- 1994 Ground-penetrating radar investigation of stratigraphic record of global climatic variability near Chott Rharsa and Atlas Mountains of southern Tunisia, North Africa, supported by the NSF
- 1992 & 1994 Geophysical-archaeological investigation of early Spanish and English colonial settlement ruins and burials of Afro-Jamaican slaves near St. Ann's Bay, Jamaica
- 1990-1996 Mini-sosie high-resolution seismic reflection neotectonic studies of the New Madrid Seismic Zone, data processing and interpretation on UNIX workstations, supported by USGS/NEHRP grants
- 1989-1991 Seismic tomographic investigation of floor strata beneath a coal pillar for Peabody Development Company underground coal mine near Marissa, IL
- 1986-1989 GLIMPCE deep crustal seismic reflection and refraction study of Lake Superior Basin
- 1986 Deep crustal reflection/refraction study of Illinois Basin near Mt. Carmel, IL in collaboration with the COCORP crustal seismic survey
- 1985-1989 High resolution seismic reflection study of geologic disturbances in shallow coal seams for Peabody Coal Company
- 1985 Geological and geophysical analysis of proposed landfill site near Muncie, IN
- 1985 Paleontology description and collection of the Waldron Formation at Muncie, IN

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XI. EDUCATIONAL OUTREACH AND COMMUNITY SERVICE (select list)

"Are You Ready?" Earthquake public service announcement campaign. **2012 Bronze Telly Award winner**, producer Harvey Henson in collaboration with director Scott Hodgson, 33rd Annual Telly Awards, New York City, NY, spring 2012.

"Great Central U.S. Shakeout" events with *Discussions about the Earthquake Threat: Using Virtual Skype™ Visits to the Classroom*. Spring 2011, Spring 2012 & Fall 2013.

"Suddenly On An Average Day" an earthquake preparedness and awareness video in collaboration with director and producer Scott Hodgson. Currently broadcasting on WSIU-TV PBS, Carbondale/Olney. **Emmy Award winner for best director, Nominated for (2) regional Emmy Awards**. Additional earthquake videos and multimedia materials are in development, 2010.

"Mapping the Trail of Tears through Southern Illinois" exhibit at the University Museum at Southern Illinois University Carbondale, Adjunct Curator in Geology and Educational Outreach, Fall 2007 to Spring 2008.

"Life through Time" exhibit at the University Museum at Southern Illinois University Carbondale, Adjunct Curator in Geology and educational outreach, Fall 2006 to Spring 2010.

Southern Illinois Emergency Preparedness Panel, Illinois State Representative John Bradley, Disaster preparedness and response panel of local and state experts and officials, 2006.

Earthquake Information Website: (www.science.siu.edu/geology/quakes/index.html)
Administration of web pages on earthquake information and seismic data recorded at Southern Illinois University Carbondale.

Improving Teacher Quality Collaborative. College of Education and Human Services, Southern Illinois University Carbondale. Coordinator for teacher and administrator professional development in the southern Illinois region to help improve student learning among middle and high school math and science programs.

Basics in Geology (BIG) Program, Director. After school earth science education and research program for Jr/Sr high school students (www.science.siu.edu/geology/big/index.html).

Young Earth Scientist (YES) Project, Co-Director. Southern Illinois University Carbondale outreach program for local elementary students using scientific inquiry and the internet to solve problems related to earth science (www.science.siu.edu/geology/yes/index.htm).

XII. RADIO, TELEVISION and NEWSPAPER INTERVIEWS and ARTICLES (select list)

"Mobile-bed river will help 'connect science' Southern Illinois ..."
SIUC News, Oct 23, 2012, news.siu.edu/2012/10/102312par12178.html

"\$3.25 million NSF grant at SIU funds science outreach for middle school students"
the Southern Illinoisan, Oct 10, 2011

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http://thesouthern.com/news/local/education/article_4d385466-f371-11e0-b418-001cc4c002e0.html?mode=story#ixzz1aZvImN8a

“Partnership promotes science in area schools”

SIUC News, Jan 28, 2011, news.siu.edu/2011/01/012811tjc11008.html

“SIUC celebrates Native American Heritage Month”

SIUC News, Oct 26, 2009, news.siu.edu/2009/10/102609cjm9284.html

“Williamson County hosts disaster-planning session”

SIUC News, Jul 22, 2008, news.siu.edu/2008/07/072208tjc8079.html

“High-tech gear, sleuthing uncover long-lost graves”

SIUC News, Nov 16, 2007, news.siu.edu/2007/11/111607tjc7116.html

“New videos stress earthquake preparedness in southern Illinois”

WQAD News Channel 8, January 10, 2006

“Video project focuses on earthquake preparedness”

SIUC News, Oct 28, 2005, news.siu.edu/2005/10/102805tc5010.html

“Museum sponsoring fossil hunts for kids Southern Illinois University”

SIUC News, Mar 18, 2004, news.siu.edu/2004/03/031804pd4023.html

“Pursuing a Trail of Tears Mystery... Illinois Graves May Hold Cherokees' Remains”

Boston Globe, by Jim Suhr, *Associated Press*, December 27, 2005

http://www.boston.com/news/nation/articles/2005/12/27/pursuing_a_trail_of_tears_mystery/

“Will a Major Quake Shake the Midwest?” *NPR, Weekend Edition* with Scott Simon interview at www.npr.org/templates/story/story.php?storyId=5047579 December 10, 2005.

“High school Outreach program helps students dig up the past”

Daily Egyptian Newspaper, November 5, 2003

<http://archives.dailyegyptian.com/imported-20111018203805/2003/11/5/high-school-outreach-program-helps-students-dig-up-the-past.html>

“Southern Illinois region possesses 'ground shaking' potential”

Daily Egyptian Newspaper, September 30, 1999

<http://archives.dailyegyptian.com/imported-20111018203135/1999/9/30/southern-illinois-region-possesses-groundshaking-potential.html>

“13-year old prodigy wows scientists with fossil research”

Daily Egyptian Newspaper, April 12, 1999

<http://archives.dailyegyptian.com/imported-20111018203135/1999/4/12/13-year-old-prodigy-wows-scientists-with-fossil-research.html>

“An SIUC researcher warned in a speech Monday evening at the Student Center of the dangers of an earthquake occurring in the Southern Illinois region in an effort to raise funds for the victims of the Kobe earthquake”

Daily Egyptian Newspaper, Feb 8, 1995 <http://archives.dailyegyptian.com/imported->

CURRICULUM VITAE of HARVEY HENSON, JR.

20111018201841/1995/2/8/an-siuc-researcher-warned-in-a-speech-monday-evening-at-the.html

XIII. COMMITTEES AND SERVICE

Southern Illinois University Carbondale (SIUC)

Exploratory Student Retention Task Force (2014-present)
Coordinator of Recruitment and Retention Search Committee (Spring 2014)
Dean College of Science Search Committee (Fall 2013 & Spring 2014)
Admission Review Committee (2012-present)
College of Science Scholarship Committee (2012-present)
Saluki Science Ambassadors (SSA) – Mentor (2009-present)
Learning Community (LLC) University Housing Committee (2008-present)
Science Living and Learning Community, Facilitator and Mentor (2008-present)
Faculty/University Associate (2008-present)
Recruitment and Retention Committee (2008-present)
Assistant Director of New Student Programs Search Committee (Fall 2013)
University Student Retention Task Force (2012-2013)
University Scholarship Committee (2012-2013)
College of Science Advisor Search Committee (Fall 2011, Spring 2012 & Fall 2013)
New Student Programs Coordinator Search Committee (Spring 2011)
University Museum Director Search Committee (Fall 2000 & Spring 2001)
University Museum Accreditation Committee (Spring & Summer 2001)
Geology Computer Committee (1996-2009)
LAN Administrators Group (1996-2009)
AP/Staff Peer Review Committee (1994-1998)
Early Warning System Facilitator for Students (1992-1999)
Project Magic – New Student Mentor (1992-1996)

Southern Illinois Community

Trail of Tears Association Board of Directors, (2006-present); Treasurer (2010-present)
Boys and Girls Club of Carbondale, Board of Directors (2008-2011)
Campus Ministry, Board of Advisors, President (1999-present)
Multi-Hazards Planning and Educational Outreach Group (2006-2008)
Natural Resources & Environmental Management Society Mentor, Ball State Univ. (2008)
Southern Illinois Earthquake Advisory Committee (2005-present)

XIV. HONORS AND AWARDS

Staff Excellence Award and Medallion (2014)
Administrative & Professional Staff Council Commendation for Staff Excellence (2014)
University Housing Service Recognition (2009, 2010, 2011, 2012, 2013 & 2014)
SIUC Undergraduate Research Assistantship (2010, 2011, 2013 & 2014)

CURRICULUM VITAE of HARVEY HENSON, JR.

Staff Excellence Award *nomination* (2013, 2014)
Telly Awards – Bronze Telly Winner for Producer “Are you Ready” Earthquake PSA (2012)
Outstanding Philanthropic Service Initiative Award, *Unite for Sight* (2011)
GPS World on the Edge Application Challenge Winner (2010)
Sigma Zeta National Science Honorary (1982-1985)
Dean’s List (BSU 1981-1985; SIUC 1985-1989, 1991-1994, 2008-2012)
Indiana State Scholar (1981-1985)
Honor Society of Phi Kappa Phi
U.S. Air Force Science Award
Kodak Award in Science
National Honor Society
Varsity Lettermen Club
Who's Who in Spanish

XV. PROFESSIONAL MEMBERSHIPS AND AFFILIATIONS

Association of Teacher Educators
National Association of Geoscience Teachers
Illinois Association of Teacher Educators
Illinois Science Teachers Association/NSTA
Vine Community Church, Children’s Program Leader (2010-present)
Geological Society of America
Illinois State Academy of Science
Society of Exploration Geophysicists
National Trail of Tears Association & Illinois Chapter
Delta Chi Fraternity – Ball State University Chapter
Southern Illinois Networking Association, Carterville IL Chapter, past-President

XVI. STUDENT MENTORING AND TEACHING (select list)

Saluki Science Ambassadors, Mentor for over 350 student leaders and undergraduate researchers in College of Science (2009-present)

Science Living and Learning Community, Mentor for 400 science students (2008-present)

SIUC Undergraduate Research Assistantship: Geo-archaeology investigation of Trail of Tears with undergraduate students Jacob Patsch and Jordan Caylor (08/2014 to 05/2015)

SIUC Undergraduate Research Assistantship: Earthquake Research and Outreach to schools and community with undergraduate student Kailey Zalucha (08/2014 to 05/2015)

SIUC Undergraduate Research Assistantship: Geo-archaeology investigation of Fort Kaskaskia with undergraduate student Saheed Obitayo (08/2014 to 05/2015)

SIUC Undergraduate Research Assistantship: Geo-archaeology investigation of Trail of Tears with undergraduate student Daniel Matias (02/2014 to 08/2014)

CURRICULUM VITAE of HARVEY HENSON, JR.

SIUC Undergraduate Research Assistantship: Geoscience Education and Outreach to local schools with emphasis on Hazards Awareness and Preparedness with undergraduate geology student Christina Penna (08/2013 to 05/2014)

SIUC Undergraduate Research Assistantships: Earthquake Research and Outreach to schools and community; mentored undergraduate science education student Dustan Heidel (08/2010 to 05/2011 and 08/2011 to 05/2012)

SIUC REACH with undergraduate geology student Joseph Batir (2007-2008) “High Resolution GPR Geo-Archaeology Investigation of the Holiday Cemetery”; a *Morris K. Udall Scholar* recipient (2008), *Outstanding SIUC Senior* (2008), *USA Today All-USA* honorable mention (2008) and *Fulbright Scholar to Iceland* (2009-2010)

Basics in Geology afterschool program for local middle and high school students interested in geology & inquiry-based science research with presentations and publications (1999-2008)

XVII. RECENT COLLABORATORS (select list)

John McIntyre (C&I, SIUC)	Steve Esling (Geology, SIUC)
Frackson Mumba (Science Ed., Univ Virginia)	John Davis (Office of the Pres., SIUC ret.)
Willy Hunter (CeMaST, Illinois State Univ)	Steve Land (Williamson Co., Illinois EMA)
Mary Wright (Mathematics, SIUC)	Greg Byer (Arcadis US, Inc., Indianapolis, IN)
Lingguo Bu (C&I, SIUC)	Rachel Skinner (Cobden, IL)
Scott Hodgson (University of Oklahoma)	Sally O’Leary (Murphysboro High School)
Ron Davis (Mitigation Officer, IEMA)	Brett Denny (Illinois State Geologic Survey)
Rusty Tanton (IEMA, Springfield, IL)	Gary Poshard (<i>formerly</i> IEMA Region 11)
David Gibson (Plant Biology, SIUC)	Nina Marifian (Ellis Elem School, Belleville, IL)
Chris Grode (Supt Murphysboro 186)	Don Bless (Cobden High School, Cobden, IL)
Vince Gutowski (Eastern Illinois University)	Heather Reynolds (Davie School, Anna, IL)
Donna Bachman (University Museum, SIUC)	Wen-June Su (Illinois State Geologic Survey)
Dawn Cobb (IL State Museum)	John Mundell (Mundell & Associates, Indianapolis, IN)
Kathy Pericak-Spector (Math, SIUC)	Donald E. Dove (Mitchell Springs Ruins, Cortez, CO)
Tiku Ravat (University of Kentucky)	Mamadou Coulibaly (Univ. Wisconsin, Oshkosh, WI)
Nicholas Pinter (Geology, SIUC)	Steve Gough (Little River R & D, Carbondale, IL)
Scott Ishman (College of Science, SIUC)	Shirley Krienert (JAL Attendance Cntr Murphysboro, IL)

XVIII. RECENT DOCTORAL AND M.S. GRADUATE STUDENTS (select list)

Euginia Mukhala Nyirenda, Levi Milliron, Duane Lickteig, Benjamin Elliott, Valerie Rasp, Lisa Kuta, Rajvee Subramanian, Erin Miles, Andrew Podoll, Christine Black-Corley, Sanjay Chintalacheruvu, Srinivas Reddy, Aurora Strick, Li Park and Kudzai Musumhi