

Andrey V. Koptelov, Ph.D.

Assistant Professor/Tenure Track

College of Education

Sam Houston State University

October, 2016 Edition

Degrees Earned

Ph.D. in Education with a concentration in Instructional Technology.

Research Institute of Technology Training and Careers,

Academy of Pedagogical Sciences of the USSR, 1989, Moscow, Russia

B.S.Ed. Kirov State Pedagogical Institute, 1982, Kirov, Russia

Professional Licensure and Certifications (currently valid)

Technology Education, 6-12. Texas

Technology Applications, EC-12. Texas

Certificate of Associate Professor, Russia

Technology Teacher Certificate EC-12, Russia

Publications: Tier, 1, 2, and 3 Articles (last 5 years)

LaPrairie, K. N., Rice, M. P., Koptelov, A. (2016). Facilitating the best fit: Masters students and masters program, *Human Culture Education*, 3(21) 173-184.

Кимберли ЛаПрейри, Мэрилин П. Райс, Андрей Коптелов. (2016). Содействие наилучшему соответствию: студенты магистратуры и магистерские программы, *Научно- образовательный и методический журнал Человек Культура Образование*, издатель и учредитель – ФГБОУ ВО «Сыктывкарский государственный университет имени Питирима Сорокина, 3(21) 173-184.

Hynes, J.W., & Koptelov, A., (2016). HuaiYin University to Sam Houston State University: Embedding culture into a curriculum. *Proceedings of the Asian Studies on the Pacific Coast 14*, url: <http://hdl.handle.net/10211.3/175272>

Lasley, E., Koptelov, A. (2016). Project based learning and technology (Scientific Digital Monograph). *Informational Communicational Environment for Technology Education: III All Russian Pedagogical Forum with International Participation*. 189-197. SGU, Syktyvkar State University named after Peterim Sorokin.

Black-Fuller, L., Taube, S., Koptelov, A., & Sullivan, S. (2016). Smartphones and pedagogy: Digital divide between high school teachers and secondary students. *Journal of US-China Education Review*. 6(2).124-131.

- Koptelov, A. (2015). Learning nano and bionanotechnologies through educational games development (Scientific Digital Monograph). *Informational Communicational Environment for Technology Education: II All Russian Pedagogical Forum with International Participation*. 142-145. SGU, Syktyvkar State University named after Peterim Sorokin.
- Koptelov, A., & Taube, S. (2015). Learning mathematics and critical thinking via computer games design. *Journal of Mathematical Science*. 2(3). 88-96.
- Brown, L.O., Koptelov, A. (2014). Integrating Technology for Teacher Preparation. *Koncept*, 6. Retrieved from <http://e-koncept.ru/2014/14578.htm?view>
- Maninger, R., Koptelov, A., Sullivan, S. (2014). Teacher morale and moonlighting: An international comparison. *Koncept* 6. Retrieved from <http://e-koncept.ru/2014/14579.htm>.
- Hynes, J. W., Edgington, W.D., & Koptelov, A. (2014). Hybrid classes: Incorporating technology and lectures to improve teacher education. *Koncept* 6. Retrieved from <http://e-koncept.ru/2014/14577.htm>
- Koptelov, A., Edgington, W. D., Hynes, J. W., & Edmonson, S., (2013) Computer games development for STEM instruction with special needs students. *Russian-American Education Forum*. 5. (4). Retrieved from <http://www.rus-ameeduforum.com/content/en/?&iid=17>
- Howell, N., Koptelov, A. (2013). What is GIS? *TeachEngineering Curriculum for K-12 Teachers*. Retrieved from: http://www.teachengineering.org/view_lesson.php?url=collection/uoh_/lessons/uoh_dig_mapping_less1/uoh_dig_mapping_less1.xml
- Howell, N., Koptelov, A. (2013). Searching for big foot and others like him. *TeachEngineering Curriculum for K-12 Teachers*. Retrieved from: https://www.teachengineering.org/view_activity.php?url=collection/uoh_/activities/uoh_dig_mapping_activity4/uoh_dig_mapping_activity4.xml
- Howell, N., Koptelov, A. (2013). Who can make the best coordinate system? *TeachEngineering Curriculum for K-12 Teachers*. Retrieved from: https://www.teachengineering.org/view_activity.php?url=collection/uoh_/activities/uoh_dig_mapping_activity1/uoh_dig_mapping_activity1.xml
- Howell, N., Koptelov, A. (2013). What's wrong with the coordinates at the North Pole. *TeachEngineering Curriculum for K-12 Teachers*. Retrieved from: https://www.teachengineering.org/view_activity.php?url=collection/uoh_/activities/uoh_dig_mapping_activity2/uoh_dig_mapping_activity2.xml
- Howell, N., Koptelov, A. (2013). Lesson: Projections and coordinates: Turning a 3D Earth into flatlands. *TeachEngineering Curriculum for K-12 Teachers*. Retrieved from:

https://www.teachengineering.org/view_lesson.php?url=collection/uoh_/lessons/uoh_dig_mapping_less2/uoh_dig_mapping_less2.xml

Howell, N., Koptelov, A. (2013). Lesson: The great pacific garbage patch. *TeachEngineering Curriculum for K-12 Teachers*. Retrieved from:
https://www.teachengineering.org/view_lesson.php?url=collection/uoh_/lessons/uoh_dig_mapping_less3/uoh_dig_mapping_less3.xml

Howell, N., Koptelov, A. (2013). Where are the plastics near me? (Field trip). *TeachEngineering Curriculum for K-12 Teachers*. Retrieved from:
https://www.teachengineering.org/view_activity.php?url=collection/uoh_/activities/uoh_dig_mapping_activity5/uoh_dig_mapping_activity5.xml

Howell, N., Koptelov, A. (2013). Get the word out of McDonalds! *TeachEngineering Curriculum for K-12 Teachers*. Retrieved from:
https://www.teachengineering.org/view_activity.php?url=collection/uoh_/activities/uoh_dig_mapping_activity3/uoh_dig_mapping_activity3.xml

Howell, N., Koptelov, A. (2013). Where are the plastics near me? (Mapping data) *TeachEngineering Curriculum for K-12 Teachers*. Retrieved from:
https://www.teachengineering.org/view_activity.php?url=collection/uoh_/activities/uoh_dig_mapping_activity6/uoh_dig_mapping_activity6.xml

Howell, N., Koptelov, A. (2013). Digital mapping and geographic information systems (GIS). *TeachEngineering Curriculum for K-12 Teachers*. Retrieved from:
https://www.teachengineering.org/view_curricularunit.php?url=collection/uoh_/curricular_units/uoh_dig_mapping_curricularunit/uoh_dig_mapping_curricularunit.xml

Books

Bogatryov A.N., Koptelov A.V., Nekrasova G.A. (1998). *Modern Instructional Technologies for Technology Teachers*. Vyatka State Pedagogical University. Kirov, Russia.

Book Chapters

Koptelov, A., Matyush N.V., Shipitsyn N.P. (2006). Information Technology. The chapter of the textbook Technology for high school students. *Ventana Graph*. Second edition. Moscow, Russia.

Koptelov, A., Matyush N.V., Shipitsyn N.P. (1999). Information Technology. Technology. Textbook for the 10-th grade of the secondary school. *Ventana Graph*. Moscow, Russia. 172-220.

Research Monographs and Technical Reports

Koptelov, A., Maninger, R., Sullivan, S., & Williams, P. (2015). A Comparison of Classroom Management: A Study of American, Russian, and Turkish Schools (Monograph).

Retrieved from:

<http://digital.library.shsu.edu/cdm/compoundobject/collection/p16042coll4/id/56/rec/2>

Maninger, R., Koptelov, A., & Sullivan, S. (2014). Teacher morale and moonlighting: An international comparison (Monograph). Retrieved from:
<http://digital.library.shsu.edu/cdm/compoundobject/collection/p16042coll4/id/8>

Funded External Grants:

Hynes, J., Koptelov, A., Seryakov, A. (2016, March) The improvement of educational practice in a different social setting. Eurasia Foundation grant. U.S. Department of State, U.S.-Russia University Partnership Program. (Sam Houston State University funded at \$22,129). Total funding for the project \$37,618.

Koptelov, A. (2009, 2010, 2011). Innovations in Nanotechnology and Nanosciences – Using a Knowledge, Applications, Research, and Technology Approach. National Science Foundation of America, \$13,500.00 total contract for conducting GK-12 activities with UH College of Engineering graduate fellows.

Koptelov, A. (2008, 2009, 2010, 2011). Research Experience for Teachers (RET), University of Houston, and National Science Foundation of America, \$25,000.00 stipend total.

Koptelov, A. (2011, 2012). RET Supplement: NSF EEC-0836680: NUE: Development of the NanoEngineering Minor Option (NEMO) at the University of Houston \$16,000.00 stipend total.

Koptelov, A. (2006). College for All. Innovative Teachers Grant Project GRAD, University of Houston and City of Houston. \$1,500.00.

Funded Internal Grants

Koptelov, A. (2015, October). College of Education Research and Graduate Programs grant of \$1000.00 for travel and presenting at the IAFOR International Conference in Kobe, Japan.

Koptelov, A. (2015, November). College of Education Enrichment Fund grant of \$500.00 for travel and presenting at the international conference in Japan.

Koptelov, A. (2015, February). College of Education Enrichment Fund travel grant of \$500.00 for travel and presenting at conference.

Koptelov, A. (2014, November). College of Education Enrichment Fund grant of \$500.00 for travel and professional development.

Koptelov, A. (2013, July). College of Education Enrichment Fund grant of \$500.00 for professional development.

Koptelov, A. (2013). Office of Research and Sponsored Programs (ORSP) and the College of Education \$500.00 grant for undergraduate student traveling and presenting at the TCEA conference.

Grants Applied

Hynes, J., Koptelov A., & Seryakov A. (2015) The improvement of educational practice in different social settings. The US-Russia University Partnership Program. Unfunded.

Frye, J.M., Koptelov, A. (2014) Understanding User Behavior: An Observational Analysis of the Development of S.T.E.M. Educational Games for Instruction and Learning. Laura Bush 21st Century Librarian Program. Institute of Museum and Library Services. Unfunded.

Frye, J.M., Koptelov, A. (2014). National Leadership Grants for Museums (NLG). Unfunded.

Koptelov, A. (2014). Faculty and student team (FAST) awards. Unfunded.

Loft, B., Koptelov, A. (2013). Collaboratively with College of Sciences, Mathematics and Statistic Department, Education Preparation Program Review and Redesign Support Component for External STEM. Unfunded.

Koptelov, A. (2013). EURECA, Undergraduate research teams program. Unfunded.

Selected Peer-Review Presentations/Posters (last 5 years)

Koptelov, A. (2016, November). Developing and Implementing Educational Computer Games and Other Modern Technology Tools for Instruction. Paper presented at the *1-st Annual International Education Conference*. UNIBE Universidad De Iberoamerica, Costa Rica.

Koptelov, A., Hynes, J. W., Edgington, W. D. (2016, September). Online master programs and technology. Paper presented at the International Scientific Conference Pitirim Sorokin and the Paradigms of Global Development in the 21st Century, Syktyvkar State University, Syktyvkar, Russia.

Edgington, W.D., Hynes, J.W., & Koptelov, A. (2016, September). Development of open pedagogical education model: Local and global solutions. Presented at the Annual Conference of Pitirim Sorokin and Paradigms of Global Development in the 21st Century, Syktyvkar, Russia.

LaPrairie, K. N., Rice, M. P., Koptelov, A. (2016, September). *Facilitating the best fit: Masters students and masters program*. Paper presented at the International Scientific Conference Pitirim Sorokin and the Paradigms of Global Development in the 21st Century, Syktyvkar State University, Syktyvkar, Russia.

- Koptelov, A., Lasley, E., Lee, D. (2016, August). *Technology and Project-based Learning*. Paper presented at the Bring'em Up Kats! Conference, SHSU the Woodlands Center Campus, The Woodlands, Texas.
- Koptelov, A., Lasley, E., Lee, D. (2016, August). *T(echology) for Two: Teachers and Students in Project-based Learning*. Paper presented at the Colorado Learning and Teaching with Technology Conference, COLTT 2016, University of Colorado Boulder, Colorado.
- Koptelov, A., Wentworth, R., & Li, C-S. (2016, March). Teaching in China: How new strategies fit to traditional Chinese education. Paper presented at the *Universality of Global Issues Conference*. SHSU the Woodlands Center Campus, The Woodlands, Texas.
- Koptelov, A., Taube, S. (2015, October) Designing and developing computer games for learning. Paper presented at the *Third Asian Conference on Society, Education & Technology*, Kobe, Japan
- Koptelov, A., Frye, Julie M. (2015, April) Creating Educational Computer Games @ Your Library. Paper presented at the *Texas Library Association Conference*, Austin, Texas
- Koptelov, A., Maninger, R., & Sullivan, S. (2015, March). A Comparison of classroom management: A study of American, Russian and Turkish schools. Paper presented at the *Universality of Global Issues Conference*. SHSU the Woodlands Center Campus, The Woodlands, Texas.
- Koptelov, A., Novikova, N. (2015, March). Innovative trends and approaches in integrating technology in education: An international comparison. Paper presented at the *Universality of Global Issues Conference*. SHSU the Woodlands Center Campus, The Woodlands, Texas.
- Koptelov, A., Taube, S. (2015, February) Using technology in learning mathematics through computer games development. Paper presented at the *MidSchoolMath Conference*. Santa Fe, New Mexico.
- Koptelov, A. (2015, February) Computer games development for instruction. Paper presented at the *Texas Computer Education Association Conference*. Austin, Texas.
- Koptelov, A., Maninger, R., & Sullivan, S. (2015, February). Perceptions of pre-service, beginning, and regular classroom teachers on classroom management issues in Texas, Russia, and Turkey. *Association of Teacher Education Annual Conference*. Phoenix, Arizona.
- Williams, P., Sullivan, S., Maninger, R., & Koptelov, A. (2015, February) What are the real discipline problems? *Association of Teacher Education Annual Conference*. Phoenix, Arizona.

- Koptelov, A. (2014, November) Playing games, making games, learning through games. Paper presented at the *Author's Forum, Bearcats Read to Succeed: A Student Success Initiative. Ready Player One reader program*. Huntsville, Texas.
- Koptelov, A., (2014, August) Designing and developing computer games for instruction. Paper presented at the *Colorado Learning and Teaching with Technology Conference, COLTT 2014*. University of Colorado Boulder, Colorado
- Koptelov, A., (2014, April) Invited presentation on game design. Paper presented for the *Math Method Class. College of education*, Sam Houston State University, Huntsville, Texas.
- Koptelov, A., (2014, February) Creating computer games for learning. Paper presented at the *Texas Computer Education Association Conference*. Austin, Texas.
- Brown, S., Maninger, Koptelov, A., & Sullivan, S. (2014, February). Teacher morale: A comparison of two Texas teacher organizations and a Russian teacher organization. Paper presented at the *Association of Teacher Education Annual Conference*. St. Louis, Missouri.
- Sullivan, S. , Maninger, R., & Koptelov, A. (2014, February). Teacher morale and Moonlighting: An international comparison. Paper presented at the *University of Global Issues Conference*. SHSU the Woodlands Center Campus, The Woodlands, Texas.
- Koptelov, A., (2013, August). Developing computer games for instructions. Paper presented at the *Colorado Learning and Teaching with Technology Conference, COLTT 2013*. University of Colorado Boulder, Colorado
- Koptelov, A., (2013, February). Game design for instruction, using a PBL approach. Paper presented at the *Texas Computer Education Association Conference*. Austin, Texas
- Koptelov, A., (2012, April). Creating computer games for instructions. Paper presented at the *Texas Library Association Conference*. Houston, TX
- Koptelov, A., (2011, March). Learning nano and bionanotechnologies through educational games development. Paper presented at the *National Science Foundation of America Engineering Education Awardees Conference*. Reston, Virginia.
- Koptelov, A., (2011, March). GK-12 experience. Paper presented at the *National Science Foundation of America Annual Conference*. Washington D.C.
- Koptelov, A., (2011, February). Computer game creation in technology class. Paper presented at the *Texas Computer Education Association Conference*. Austin, Texas.
- Koptelov, A., (2009, October). Creating computer games. Paper presented at the *Region 4/TCEA Area 4 K-12 Technology Applications Conference*. Houston Texas

Professional Experiences

- August, 2012 -Present *Assistant Professor/Tenure Track*, Department of Curriculum & Instruction, College of Education, Sam Houston State University, Huntsville, Texas.
- 2001-2012 *Technology Teacher*, Fonville Middle School, Houston ISD, Houston, Texas,
- 1995-2001 *Associate Professor*, Vyatka State Pedagogical University, Kirov, Russia
- 1986-1989 *Graduate Faculty*, Research Institute of Technology Training and Careers, Academy of Pedagogical Sciences of the USSR, Moscow, Russia
- 1983-1985 *Assistant Professor*, Kirov State Pedagogical Institute, Kirov, Russia
- 1981-1983 *Technology Teacher*, Public School # 65, Novovyatsk, Kirov Region, Russia

Administrative

- 2015-2016 Coordinator, M.Ed. in Instructional Technology
Department of Curriculum and Instruction,
College of Education, Sam Houston State University,
Huntsville, Texas
- 1995-1998 Department Chair, Department of Educational Technology, Vyatka State Pedagogical University, Kirov, Russia
- 1983-1985 Workshops Supervisor, Kirov State Pedagogical Institute, Kirov, Russia

Teaching Experience at SHSU

Graduate Courses:

Department of Curriculum & Instruction:

- CIED 5383 - Integrating Current Technologies in Teaching
CIED 5365 - Technology and Cognition
CIED 5393 – Assessment of Learning
CIED 5369 – Practicum for Technology Facilitation
CIED 5387 – Workshop in Education/ Independent Study

Undergraduate Courses:

Department of Curriculum & Instruction:

- CIME 3374 – Human Growth and Learning
CIME 4227 - Integrating Technology in Middle Grades I
CIME 4116 - Integrating Technology in Middle Grades II
CIEE 3323 – Curriculum for Intermediate Grades
CIEE 2333 – Becoming a Teacher

Recent International Teaching Experience

Syktyvkar State University, Russia (*February 2016-April 2016*).

- Current Trends and Issues of Informational Technology in Education (online, without compensation).

Huaiyin Normal University, Institute of Educational Science, China (*November 2015*)

- Teaching Theories
- Primary School Educational Psychology

Dissertation

Koptelov, A. (1989). *Applying Computer and Informational Technology for Senior Students Vocational Training* - Research Institute of Technology Training and Careers of the Academy of Pedagogical Sciences of the USSR, Moscow, Russia

Honors and Awards

The Japan Studies Institute (JSI) Fellowship. (March 2016) *American Association of State Colleges and Universities* (AASCU), Washington DC.

Outstanding Research Award (September, 2015) Sam Houston State University, College of Education.

Official letter of appreciation from Syktyvkar State University for collaborative research activities between Sam Houston State University and Syktyvkar State University, Russia (March, 2015).

Sam Houston State University Award for Invited Presentation:
(November, 2014) Playing games, making games, learning through Games. *Bearcats Read to Succeed: A Student Success Initiative. Ready Player One reader program.* Huntsville, Texas.

My students at Fonville Middle School (95% of the students are from economically disadvantaged families) had the highest scores on the 2011 and 2012 Technology Literacy Assessments in Houston ISD with an average score of 91%. The district average score was 62%, total campuses tested (n=59).

Houston ISD teacher's appraisal system scores for 2008-2009, 2009-2010, 2010-2011 and 2011-2012 school years are all exceed expectation.

Other Competencies

Instructional design and development of educational materials and educational computer games for K-12 instruction, vocational training, and higher education.
Fluent in Russian (native language).