

Publications List

Donna Washington Stokes

PUBLICATIONS (h-index – 18)

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1. Chain mentoring in a U.S. secondary STEM teacher education programme. Craig, C. J., Evans, P., **Stokes, D.**, Curtis, G. A., Manuel, M., and Norton Silk, M., *Teachers and Teaching*, 31(1), 1–22, <https://doi.org/10.1080/13540602.2025.2578674>, (2025).
2. The Power of Junior Faculty Mentoring Committees, Debra D. Murray, Clintoria R. Williams, Jennifer A. Gaddy, Crystal D. Rogers, Annet Kirabo, Monica M. Santisteban, Celestine N. Wanjalla, Edith M. Williams, Mariya T. Sweetwyne, Steven M. Damo, Sandra A. Murray, **Donna W. Stokes** and Antentor Hinton Jr, *Journal of Cellular Physiology*, e31360, <https://doi.org/10.1002/jcp.31360> (2024).
3. Problem-Based Teaching: An Exploratory Analysis of Discourse Methods of Peer Facilitators in a Summer Engineering Bridge Program, Sims, Eric, Horton, David, Steele, Jaiah, Jarvis, Jeanette, Greer, Tomika W., **Stokes, Donna W.** and Henderson, Jerrod A. *Education Sciences*, 14 (7). p. 680. ISSN 2227-7102 (2024).
4. Multi-layered mentoring: Exemplars from a U.S. STEM teacher education program, Cheryl J. Craig, Paige Evans, **Donna Stokes**, Leah McAlister-Shields and Gayle Curtis, *Teachers and Teaching* (CTAT), <https://doi.org/10.1080/13540602.2023.2236957> (2023).
5. Discovering Your Best-Loved Self as a Multifaceted Mentor, **Stokes, D.**, In: Craig, C.J., McDonald, D.M., Curtis, G.A. (eds) *Learning, Leading, and the Best-Loved Self in Teaching and Teacher Education*. Palgrave Studies on Leadership and Learning in Teacher Education. Palgrave Macmillan, Cham. https://doi.org/10.1007/978-3-031-11902-6_15 (2022).
6. Preparing teachers to teach the STEM disciplines in America’s urban schools. *Advances of research in teaching* (Vol. 35), Craig, C., Evans, P., **Stokes D.**, Bingley, UK: Emerald Publishing Limited (2021).
7. Overview of the book, Craig, C., Evans, P., **Stokes D.**, In *Preparing Teachers to Teach the STEM Disciplines in America’s Urban Schools*. *Advances of research in teaching* (Vol. 35). Bingley, UK: Emerald Publishing Limited (2021).
8. Overview of the teachHOUSTON program, Evans, P., Craig, C. J., **Stokes, D.** & Morgan, J., In *Preparing Teachers to Teach the STEM Disciplines in America’s Urban Schools*. *Advances of research in teaching* (Vol. 35). Bingley, UK: Emerald Publishing Limited (2021).
9. Collaboration between a physics professor and a physics teacher/teacher educator, **Stokes, D.** & Evans, P., In *Preparing Teachers to Teach the STEM Disciplines in America’s Urban Schools*. *Advances of research in teaching* (Vol. 35). Bingley, UK: Emerald Publishing Limited (2021).
10. A narrative inquiry into teaching physics as inquiry: One teacher’s journey, Evans, P., **Stokes, D.**, & Craig, C.J., In *Preparing Teachers to Teach the STEM Disciplines in America’s Urban*

Schools. *Advances of research in teaching* (Vol. 35). Bingley, UK: Emerald Publishing Limited (2021).

11. Enhancing preservice teacher preparation through formal and informal learning experiences, **Stokes, D.** & Evans, P., In *Preparing Teachers to Teach the STEM Disciplines in America's Urban Schools. Advances of research in teaching* (Vol. 35). Bingley, UK: Emerald Publishing Limited (2021).
12. Examining the impact for informal experiences on preservice teacher's self-efficacy. Evans, P. McAlister-Shields, L., Manuel, M., Craig, C. J., **Stokes, D.** and Nguyen, H., In *Preparing Teachers to Teach the STEM Disciplines in America's Urban Schools. Advances of research in teaching* (Vol. 35). Bingley, UK: Emerald Publishing Limited (2021).
13. Parent's Influence on Undergraduate and Graduate Students' Entering the STEM disciplines and STEM careers, Craig, C. J., Verma, R., **Stokes, D.**, Evans, P. and Abrol, B., In *Preparing Teachers to Teach the STEM Disciplines in America's Urban Schools. Advances of research in teaching* (Vol. 35). Bingley, UK: Emerald Publishing Limited (2021).
14. In Praise of "unsung teachers": Teachers' Influences on Students Enrolled in STEM programs with the intent on Entering. Craig, C. J., Evans, P., Verma, R., **Stokes, D.** and Li, Jing, In *Preparing Teachers to Teach the STEM Disciplines in America's Urban Schools. Advances of research in teaching* (Vol. 35). Bingley, UK: Emerald Publishing Limited (2021).
15. The Influence of Professors on Students Enrolled in the STEM Programs with the intent of Embarking on STEM Careers. Li, J., Evans, P., Craig, C., **Stokes, D.**, Verma, R., and Zhu, G., In *Preparing Teachers to Teach the STEM Disciplines in America's Urban Schools. Advances of research in teaching* (Vol. 35). Bingley, UK: Emerald Publishing Limited (2021).
16. The Value of STEM Scholarship Grants to Undergraduate and Graduate Students Intending to Study the STEM Disciplines and Pursue STEM Careers. Li, J, Craig, C. J., Gale, T., Norton, M., Gang, Z., Evans, P., **Stokes, D.** & Verma, R., In *Preparing Teachers to Teach the STEM Disciplines in America's Urban Schools. Advances of research in teaching* (Vol. 35). Bingley, UK: Emerald Publishing Limited (2021).
17. Where are the teachHOUSTON preservice candidates now? Are they still in the urban teacher force? Evans, P., Manuel, M., Nguyen, H., **Stokes, D.**, Craig, C. J., Han, X., & Morgan J., In *Preparing Teachers to Teach the STEM Disciplines in America's Urban Schools. Advances of research in teaching* (Vol. 35). Bingley, UK: Emerald Publishing Limited (2021).
18. Final words. In *Preparing Teachers to Teach the STEM Disciplines*, Craig, C., Evans, P., **Stokes D.**, In *America's Urban Schools. Advances of research in teaching* (Vol. 35). Bingley, UK: Emerald Publishing Limited (2021).
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20. Teaching through Culture: Employing Culturally Responsive Pedagogy to Transform Postsecondary STEM Instruction, McAlister-Shields, L., Hutchison, L., and **Stokes, D.** Chapter in J. Conyers, C. Edwards, & K. Thompson (Eds.), *African Americans in Higher Education: A Critical Study of Social and Philosophical Foundations of Africana Culture*. Gorham, ME: Myers Education Publishing (2020).
21. Long mean free paths of room-temperature THz acoustic phonons in a high thermal conductivity material, Ting-Han Chou, Lucas Lindsay, Alexei A. Maznev, Jateen S. Gandhi, **Donna W. Stokes**, Rebecca L. Forrest, Abdelhak Bensaoula, Keith A. Nelson, and Chi-Kuang Sun, *Phys. Rev. B*, **100**, 094302 (2019).
22. The Gordian Knot of Teacher Induction: When Context Trumps Teacher Preparation and the Desire to Teach, Cheryl J. Craig, Paige Evans, Jing Li and **Donna Stokes**, A chapter in Denise McDonald (Ed.), *Facing Challenges and Complexities in Retention of Novice Teachers*, Information Publishing, Charlotte, North Carolina (2018).
23. A tribute to ‘unsung teachers’: teachers’ influences on students enrolling in STEM programs with the intent of entering STEM careers, Cheryl J Craig, Paige Evans, Rakesh Verma, **Donna Stokes**, and Jing Li, *European Journal of Teacher Education*, DOI:10.1080/02619768.2018.1523390 (2018).
24. The influence of parents on undergraduate and graduate students’ entering the STEM disciplines and STEM careers, Cheryl J. Craig, Rakesh Verma, **Donna Stokes**, Paige Evans and Bobby Abrol, *International Journal of Science Education*, DOI:10.1080/09500693.2018.1431853 (2018).
25. The embodied nature of narrative knowledge: A cross-study analysis of embodied knowledge in teaching, learning, and life knowledge in teaching, learning, and life, Cheryl J. Craig, JeongAe You, Yali Zou, Rakesh Verma, **Donna Stokes**, Paige Evans, Gayle Curtis, *Teaching and Teacher Education*, 71, 329 (2018). **Received the American Education Research Association Narrative Special Interest Group Outstanding Paper Award 2019.**
26. Propagation of THz acoustic wave packets in GaN at room temperature, Maznev, A. A., Hung, T.-C., Yao, Y.-T., Chou, T.-H., Gandhi, J. S., Lindsay, L., Shin, H. D., **Stokes, D. W.**, Forrest, R. L., Bensaoula, A., Sun, C.-K. and Nelson, K. A., *Appl. Phys. Lett.*, **112**, 061903 (2018).
27. Math Remediation Intervention for Student Success in the Algebra-Based Introductory Physics Course, Forrest, R.L., **Stokes, D.W.**, Burrridge, A.B. and Voight, C.D., *Physical Review Physics Education Research*, 13, 20137 (2017).
28. Developing STEM Teachers through both Informal and Formal Learning Experiences, **Stokes, D.**, Evans, P. and Craig, C., Search and Research: *Teacher Education for Contemporary Context*. P. 961, Editors Juanjo Mena, Ana Garcia Valcarcel, Francisco Garcia-Penalvo and Marta Martin del Pozo, Publiusher Ediciones Universidad de Salamanca (2017).
29. Attracting, preparing and retaining teachers in high need areas: A science as inquiry model of teacher education, Craig, C., Evans, P., **Stokes, D.** and Bott, S., Chapter in M. Peters, B.

Cowie and I. Mentor (Eds.) *A companion to research in teacher education*, New York, NY: Springer Publishing. (2017).

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31. Pre-testing and early Intervention in Introductory General Physics I, **Stokes, D.W.**, Forrest, R.L., and Voight, C.D., Publications from the 6th International Technology Education and Development Conference, Valencia, Spain (March 2012).
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62. $\text{Al}_{1-x}\text{In}_x\text{As}_{1-y}\text{Sb}_y/\text{GaSb}$ Effective Mass Superlattices Grown by Molecular Beam Epitaxy. **D. Washington-Stokes**, T.P. Hogan, P. Chow, T.D. Golding, U. Kirschbaum, C.L. Littler and R. Lukic, *J. Cryst. Growth*, **201-202**, 854-857 (1999).
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CONFERENCE PROCEEDINGS

1. Mentoring in the midst of teachHOUSTON: The Pandemic Chapter [Symposium], Craig, C., Evans, P., **Stokes, D.**, McAlister Shields, L., Curtis, G., Manuel, M., Paper presented at the American Educational Research Association Annual Meeting, Online (April 2021).
2. Advancing STEM education: Recent *teachHOUSTON* research, Craig, C., Evans, P., **Stokes, D.**, Li, J., Zhu, G. & Curtis, G., *The 19th Biennial Conference of International Study Association on Teachers and Teaching (ISATT)*, Sibiu, Romania (January 2019).
3. Mentoring in the midst of teachHOUSTON: Exemplars from a National Science Foundation-supported STEM teacher education program. Craig, C., Evans, **Stokes, D.**, McAlister-Shields, L., & Curtis, G., Proceedings of the American Educational Research Association. Toronto, Canada. (April 2019).

DIGITAL PRODUCTS

1. teachHOUSTON: Journey of a STEM Teacher, Paige Evans, Cheryl Craig, Leah McAlister-Shields, **Donna Stokes**, Jaspal Sublock, Weihang Zhu, <https://stemforall2022.videohall.com/presentations/2511.html> (2022)
2. teachHOUSTON STEM Interactive: STEM Accessible Worldwide, Paige Evans, Cheryl Craig, Jacqueline Ekeoba, Liandra Larsen, Mariam Manuel, Ramona Mateer and **Donna Stokes**, <https://stemforall2021.videohall.com/presentations/2031> (2021)
3. The impact of innovative scholarship programs that foster female participation in STEM, P. Evans, C. Craig, X. Han, and **D. Stokes**, <https://multiplex.videohall.com/presentations/1559> (2019).

PATENT

1. Patent # 10241058: Systems and methods for quality control of a periodic structure, Maznev, Alexei, Nelson, Keith A., Bensaoula, Abdelhak, Gandhi, Jateen S., **Stokes, Donna Washington**, Forrest, Rebecca Lynne, Shin, Hyun Doug, United States, Massachusetts Institute of Technology <http://www.freepatentsonline.com/10241058.html> (2019).