

K. Renee Horton

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Professional Preparation:

- Louisiana State University, B.S.EE 2002
- University of Alabama, Material Science, Ph.D. 2011 *Fundamental Mechanism and Interaction of the Materials of Self-Reacting Friction Stir and Plug Weld of Dissimilar Aluminum Alloys*

Research Presentations (Selected)

1. Horton, K. R. (2017) The Art of Metal Joining and How It's Used - Physics and Astronomy Departments at UVA Feb 2017
2. Friction Stir Welding and How it is Used (2016) - Benemérita Universidad Autónoma de Puebla - (BUAP), Puebla, Mexico Nov 2016
3. Keynote Research Seminar Speaker (2016) Stillman College, Tuscaloosa, Al Mar 2016
4. Research Seminar Speaker (2016) St. Francis Xavier, Antigonish, NS, Canada Feb, 2016
5. NASA MSFC, Huntsville, Al Presentation (2010) 2014/2219 SR-FSW Plates with M3/M5 Plugs
6. Seminar Speaker University of Southern Mississippi, Hattiesburg, Ms, March 6, 2009
7. Physics Diversity Summit, National Society of Black Physicists, Nashville, TN Feb 11, 2009
8. K. Renee Horton (2008) Invited. Creating a viable Woman's working Group. 3rd IUPAP WIP Conference. Seoul, Korea
9. K. Renee Horton (2006). Magnetically Manipulated Quantum Dots (MMQD). NASA
10. Goddard Space Flight Center (GSFC) Graduate Student Research Program Symposium (GSRP). September 22, 2006

Invited Speaker

1. Louisiana State University School of Engineering Commencement Speaker May 2017
2. Keynote speaker for the opening session for the program for the promotion of substantive equality at the Benemérita Universidad Autónoma de Puebla (BUAP), Mexico. International Women's Day March 2017
3. Keynote speaker Emerging Researchers Network (ERN) Conference March 2017
4. "Diversity in STEM" – National Radio Astronomy Observatory Feb 2017
5. How do Diversity and Inclusion Intersect - African American Ball Resource Group (AABRG) Jan 2017
6. Keynote speaker APS Conference Undergraduate Women in Physics University of Colorado - Boulder Jan 2017
7. Panelist Private viewing of Hidden Figures Iota Phi Lambda Sorority, Inc. (an organization for business and professional women) Richmond, Tx - Jan 2017
8. How to make learning STEM fun, Instituto de Física, Benemérita Universidad Autónoma de Puebla - (BUAP), Puebla, Mexico Nov 2016
9. How to make learning STEM fun Nealtican, Puebla Mexico, Nov 2016
10. Money & Power Stage Essence Festival July 2016
11. Cross Discipline Training to Reach the Mountain Top of Your Career. APS March 2016
12. Finding your Intersection Between your Talent and Passion, Women in Science and Engineering, Atlantic Region (WISEatlantic) Mount Saint Vincent University Feb 2016
13. International Conference Women and Girls in Science, United Nations, New York, Feb 2016
14. Keynote Speaker Conference Undergraduate Women in Physics, Syracuse University, 2016

15. Panelist Conference Undergraduate Women in Physics, Syracuse University, Feb 2016
16. Panelist AAPT, New Orleans, Jan 2013
17. Panelist Conference Undergraduate Women in Physics, University of Tennessee, Feb 2012
18. Panelist Conference Undergraduate Women in Physics, Duke University, Feb 2010
19. K. Renee Horton (2008) Invited. The Eye of the Storm: Balancing my storm of family, career and self. American Physical Society March Meeting. March 11, 2008
20. K. Renee Horton (2008) Invited. Commencement/Founder's day speaker University of Maryland Eastern Shore, Sept. 16, 2008
21. K. Renee Horton (2006). Invited. Women Physicist of color achieving at the intersection of race and gender. American Physical Society March Meeting. March 15, 2006.
22. K. Renee Horton (2006). Invited. NSBP International Activities – 2nd IUPAP International Conference on Women in Physics in Rio de Janeiro, Brazil. February 18, 2006.

Publications (Selected)

1. K. Renee Horton (2017) "On the shoulders of hidden giants" Physics World, March 2017
2. **K. Renee Horton** and Marina Milner-Bolotin (2014). Physics Education, 5th IUPAP International Conference on Women in Physics. AIP Conference Proceedings 2015.
3. **K. Renee Horton** and J. Holbrook (2013). Gender Studies and the Role of Women in Physics, 4th IUPAP International Conference on Women in Physics. AIP Conference Proceedings 2013.
4. **K. Renee Horton** and J. Holbrook (2013). Gender Studies and the Role of Women in Physics, 4th IUPAP International Conference on Women in Physics. AIP Conference Proceedings 2013
5. K. Renee Horton, African American Women: Still many "First" in Physics. APS CSWP Gazette, Spring 2009
6. Women in Physics: The 3rd IUPAP International Conference on Women in Physics, Editor with K. Renee Horton and Catherine Kaicher, CP 1119, AIP Press, 2009.
<http://proceedings.aip.org/proceedings/confproceedings/1119.jsp>
7. Yevgeniya V. Zastavker, Paul Gueye, Kelly M. Mack, Rachel Ivie, Elizabeth H. Simmons, Lea F. Santos, Luz J. Martínez-Miranda, Arthur Bienenstock, Jacob Clark Blickenstaff, **K. Renee Horton**, Anne J. MacLachlan, Nora Berrah, and Beverly K. Hartline "Women in Physics in the United States," WOMEN IN PHYSICS: Third IUPAP International Conference on Women in Physics / Seoul (South Korea), 8 - 10 October 2008, AIP Conference Proceedings, Vol. 1119, No. 1, pp. 189 - 190, April 2009
8. Yevgeniya V. Zastavker, Paul Gueye, Kelly M. Mack, Rachel Ivie, Elizabeth H. Simmons, Lea F. Santos, Luz J. Martínez-Miranda, Arthur Bienenstock, Jacob Clark Blickenstaff, **K. Renee Horton**, Anne J. MacLachlan, Nora Berrah, and Beverly K. Hartline, "Women in Physics in the United States: Reporting on Past and Looking at the Future," CSWP Gazette, The Newsletter of the Committee on the Status of Women in Physics of the American Physical Society, Vol. 28, No. 1, Spring 2009
9. Kimberly S. Budil, Karen E. Daniels, Theda Daniels-Race, Melissa Eblen-Zayas, Beverly K. Hartline, Richard Hazeltine, Ariel K. Hodari, **K. Renee Horton**, Rachel Ivie, Laura Kay, Luz J. Martínez-Miranda, Ariel Michelman-Ribeiro, Maria Ong, Juana I. Rudati, Jami Valentine, Barbara Whitten, Elvira Williams, and Yevgeniya V. Zastavker (2005). Women in Physics in the U.S.: A Progress Report Women in Physics, 2nd IUPAP International Conference on Women in Physics. AIP Conference Proceedings 2005.

Fellowships and Awards

1. NSBP Fellow - 2017
2. Black Engineer of the Year - 2011
3. Goddard Space Flight Center Graduate Student Research Program (GSRP) Fellowship 2004-
4. 2007. Includes a \$3000 supply and \$3000 travel budget.
5. Southern Regional Educational Board (SREB) Fellowship 2005-2008
6. Community Based Partnership Student initiated outreach award \$2000 (2008)
7. National Alumni Fellow University of Alabama 2008-2009
8. Harriet G. Jenkins Predoctoral Fellowship 2008-2011

Synergistic Activities:

1. Executive body member The Edward Bouchet Abdus Salam Institute (EBASI) (2017 – Present)
2. Board member Soul of my Footprint (2017 – Present)
3. Board Member African American Women in Physics (AAWIP) (2017 - present)
4. President National Society of Black Physicists (2016 – 2018) - Program Committee (2004 - 2009) ; Chair of Women in Physics Committee (2007-2009):
5. Member of the IUPAP Women's working group in Physics (2010- 2017) - Member of the 2005 US Delegation Team for the 2nd IUPAP Conf on Women in Physics (2005). Co-Leader US Delegation Team for the 3rd IUPAP WIP (2008)
6. Chair of the Forum on Graduate Student Affairs of the American Physical Society (APS) 2011-2012
7. Al and Ga Science and Everyday Experience (SEE – NSF award) coordinator (2007-2009); Delta Sigma Theta Sorority, Inc