

# Donna W. Stokes

## Curriculum Vitae

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University of Houston  
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## EDUCATION

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**Ph.D., Physics**, University of Houston, Houston, Texas, August 1998.

Dissertation: “Al<sub>1-x</sub>In<sub>x</sub>As<sub>1-y</sub>Sb<sub>y</sub>/GaSb Heterojunctions and Multilayers Grown by Molecular Beam Epitaxy For Effective Mass Superlattices.”

Advisor: Dr. Terry Golding

**M.S., Physics**, University of Houston, Houston, Texas, 1992.

Thesis: “An Infrared Sensor Based on a Double Barrier Resonant Tunneling Structure”

Advisor: Dr. Terry Golding

**B.S., Physics**, Southern University, Baton Rouge, Louisiana, 1988.

## PROFESSIONAL EXPERIENCE

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2006-Present Associate Professor, University of Houston, Department of Physics, Houston, Texas  
Teaching, research and service as an associate professor. Research focuses on the structural, optical and electrical characterization of semiconductor and related materials for optoelectronic device applications.

2000-2006 Assistant Professor, University of Houston, Department of Physics, Houston, Texas  
Teaching, research and service as an assistant professor. Research focuses on the structural, optical and electrical characterization of semiconductor and related materials by high-resolution x-ray diffraction, absorption/transmission spectroscopy, photoluminescence, and Hall effect measurements for optoelectronic device applications.

1998-2000 Postdoctoral Associate, U. S. Naval Research Laboratory, Washington, DC  
Research involving fabrication, and optical and electrical testing of mid-infrared antimonide based lasers.

1992-1998 Research Assistant, University of Houston, Department of Physics, Houston, Texas  
Dissertation research involving the molecular beam epitaxial growth of Al<sub>1-x</sub>In<sub>x</sub>As<sub>1-y</sub>Sb<sub>y</sub>/GaSb superlattices and characterization of these films by high-resolution x-ray diffraction, and magneto Hall effect measurements.

1988-1992 Research Assistant, University of Houston, Department of Physics, Houston, Texas  
Masters thesis research involving the growth of InGaAs/AlGaAs/GaAs resonant tunneling diodes by molecular beam epitaxy. The heterostructures were processed

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## PROFESSIONAL EXPERIENCE (continued)

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- by photolithography, metal evaporation, ion milling, annealing and wire bonding for diode testing.
- 1991-1992     Research Assistant, Schmidt Instruments, Houston, Texas  
Master's thesis research involving set up and operation of equipment for electrical characterization of resonant tunneling detectors. Room and low temperature current-voltage measurement were performed and analyzed to determine negative differential resistance transitions.
- Summer 1988 and 1989     Research Assistant, Los Alamos National Lab, Los Alamos, New Mexico  
Characterization of fuel cells using a SEM, TEM and use of a 3 million volt tandem electrostatic accelerator. Providing operational startup and assistance to users of a 3 million volt tandem electrostatic accelerator and analyzed YBaCuO superconductors using the tandem accelerator.
- 9/87-5/88     Research Assistant Southern University, A&M College, Department of Physics, Baton Rouge, Louisiana  
FORTRAN and BASIC programming on a project entitled "Atmospheric Aerosol Chemistry Modeling".
- Summer 1987     Research Assistant, AT&T Bell Laboratories, Murray Hill, New Jersey  
Worked as a lab technician. Responsibilities included fabrication of thin films of chromium on silicon substrates by evaporation in a vacuum bell jar and characterization of these films using a SEM.
- Summer 1986     Research Assistant, Bell Communications, Holmdell, New Jersey  
Hall effect measurements on GaAs/InGaAs superlattices for fabrication of field effect transistors.

## FUNDING

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### Current:

1. National Science Foundation, PI, "STEM Scholarship Program with Promotion and Retention of STEM Education through Networking Team (PARENT) Support," \$1,000,000 (1/1/17 – 12/31/21)
2. National Science Foundation, Co-PI, "University of Houston: Learning through Informal and Formal Experiences," \$1,450,000 (09/01/16-08/31/21)
3. National Science Foundation, Senior Personnel, "Collaborative Research: Understanding Robert Noyce Teacher Scholarship Outcomes in Texas," \$447,763 (07/01/16-06/30/19)
4. National Science Foundation, PI, "Recruitment, Preparation and Retention of STEM Students as High School Teachers," \$ 980,005 (09/01/12 - 08/31/18)
5. University of Houston (TIP), PI, "Enhancing Student Engagement in Physics Courses with Hybrid Courses and Social Media ," \$17,000 (9/01/17 - 8/31/18)

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## FUNDING (continued)

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### Past:

1. University of Houston (TIP), PI, "Recruitment, Infusing Advanced Physics Courses with Demonstrations," \$15,180 (10/01/16 - 9/31/17)
2. University of Houston Small Grants Program, "Evaluation of Physics and Chemistry Pre-service Teacher Scholarship Program," \$3,000 (1/01/15-12/31/15) No cost extension to 12/2017.
3. University of Houston (GEAR), PI, "InGaN/GaN Epitaxial Structures for Terahertz Applications," \$29,998 (06/01/14 - 05/31/16)
4. University of Houston Teaching Innovations Program, "Infusing Advanced Physics Courses with Demonstrations and Interactive Learning Activities," \$15,679 (6/01/14 – 5/31/16)
5. University of Houston Teaching Innovations Program, "Enhancing University Physics II Laboratories through an Inquiry-based Approach," \$15,240 (6/01/14 – 5/31/16)
6. University of Houston GEAR Program, "InGaN/GaN Epitaxial Structures for Terahertz Applications," \$30,000 (6/01/14 – 5/31/16)
7. Delphian's Chapter Award, "Physics Demonstration Equipment," \$975 (6/01/14 – 5/31/15)
8. University of Houston Quality Enhancement Program "An Inquiry Based Approach to University Physics I Laboratories," \$10,000 (6/01/13 – 5/31/14)
9. University of Houston Quality Enhancement Program, "Writing Instruction Enhancements for Physics Advanced Laboratory Sequence," \$5,000 (6/01/13 – 5/31/14)
10. University of Houston Student Success Grant, "Pretesting and Early Intervention in Physics 1301," \$12,882 (6/01/11 – 5/31/12)
11. University of Houston Faculty Development Initiative B, "An Interactive Approach to Teaching Introductory Physics," \$25,000 (9/01/09 – 8/31/10)
12. Texas Center for Superconductivity Seed Grant, "Spintronic Devices based on GaSb/AlSb System," \$10,000 (9/1/07 – 8/31/08)
13. University of Houston Faculty Development Initiative Program A, "Electronic Resources for Improving Problem Solving Skills for Introductory Physics Courses," \$4,000 (9/1/07 – 8/31/08)
14. Texas Center for Superconductivity Seed Grant, "Spintronic Devices based on GaSb/AlSb System," \$10,000 (9/1/06 – 8/31/07)
15. National Science Foundation, "Supplemental Research Experience for Undergraduates Program: Lateral Composition Modulation in InAs/GaSb Superlattices: Nanometer Sized Quantum Wires," \$24,000 (6/1/04 – 5/31/08)
16. Texas Higher Education Coordinating Board Advanced Technology Program, "Supplemental Summer High School Teacher Grant: High Efficiency Solid State Light Source," \$4,500 (6/1/05 – 5/31/06)
17. University of Houston Faculty Development Initiative B, "Continuing Education Using "Peer Instruction" for Introductory Physics Courses," \$25,000 (1/1/05 – 12/31/06)
18. Texas Higher Education Coordinating Board Advanced Technology Program, "Supplemental Summer High School Teacher Grant: High Efficiency Solid State Light Source," \$4,500 (6/1/04 – 5/31/05)

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## FUNDING (continued)

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19. Texas Higher Education Coordinating Advance Technology Program, “High Efficiency Solid State Light Source,” \$127,800 (1/1/04 – 12/31/06)
20. UH Faculty Development Initiative Program B, “Development of “Peer Instruction” Taught Introductory Physics Courses,” \$25,000 (6/1/03 – 5/31/04)
21. National Science Foundation Faculty Early Career Development Award, “Lateral Composition Modulation in InAs/GaSb Superlattice: Nanometer Sized Quantum Wires,” \$405,997 (6/1/2002 – 5/31/08)
22. University of Houston New Faculty Grant, “Terahertz Lasers Engineered from InAs/GaSb Superlattices,” \$6,000 (9-01-021 - 8/31/01)

## TEACHING EXPERIENCE

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2000-Present	Associate Professor, Department of Physics, University of Houston, Houston, TX	
	Modern Optics	Fall 2010, Fall 2011, Fall 2013, Spring 2015, Spring 2016, Spring 2017, Spring 2018
	Modern Optics Laboratory	Fall 2010, Fall 2011, Fall 2013, Spring 2015, Spring 2016, Spring 2017, Spring 2018
	General Physics I (Phys 1301)	Fall 2003, Spring 2004, Spring 2005, Fall 2005, Spring 2006, Spring 2007, Spring 2008, Spring 2011, Spring 2012, Fall 2012, Spring 2014, Fall 2014, Spring 2017
	Intermediate Mechanics (Phys 3309)	Fall 2006, Fall 2007, Fall 2008, Fall 2009
	Electronic Devices and Applications	Fall 2012, Fall 2014, Fall 2015, Fall 2016, Fall 2016, Fall 2017
	University Physics I (Phys 1321)	Spring 2002, Fall 2002, Spring 2003, Spring 2007, Spring 2009, Spring 2010, Spring 2013
	University Physics II (Phys 1322)	Fall 2000
	Prob. Solving Tech. in Phys. (Phys 1100)	Fall 2007, Spring 2008, Fall 2008
	Special Problems-Experimental Techniques in Semiconductor Physics	Spring 2004

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## TEACHING EXPERIENCE (continued)

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1988-1997 Teaching Assistant, University of Houston, Department of Physics, Houston, Texas

General Physics Laboratory I (Phys 1101) Fall 1988, Spring 1989

General Physics Laboratory II (Phys 1102) Fall 1989, Spring 1990

University Physics II Laboratory (Phys 1122) Spring 1997, Fall 1997

## UNDERGRADUATE ADVISING ACCOMPLISHMENTS

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2017 Honorable Mention Goldwater Scholarship – Daniel Scott

2017 Focus Scholar at the Georgia Institute of Technology Graduate School Preview Program - Sam Garcia Morelos (**January 2017**)

12<sup>th</sup> Annual Conference for Undergraduate Women in Physics – 8 UH attendees (**January 2017**)

SURF Program – Samuel Garcia (**Summer 2016**)

3 Noyce Scholars - Summer REU positions - 2 at Stanford Linear Accelerator Lab and 1 at Pacific Northwest National Lab, (**Summer 2016**)

11<sup>th</sup> Annual Conference for Undergraduate Women in Physics – 1 UH attendees (**January 2016**)

5 majors receive academic scholarship (**2015**)

10<sup>th</sup> Annual Conference for Undergraduate Women in Physics – 5 UH attendees (**January 2015**)

5 majors receive academic scholarship (**2014**)

Goldwater Scholarship – Khanh Nguyen- Senior Physics Major (**2014**)

Goldwater Scholarship Honorable Mention – Christina Stegemoller - Senior Physics Major (**2014**)

Fre'Etta Brooks – UH Black Alumni Association NSM Scholarship (**2014**)

5 majors receive academic scholarship (**2013**)

9<sup>th</sup> Annual Conference for Undergraduate Women in Physics – 4 UH attendees (**January 2014**)

Faculty Advisor - Society of Physics Student (**2006 – present**)

Faculty Advisor - Mu Delta Pre-Health Organization (**2009 – 2014**)

8<sup>th</sup> Annual Conference for Undergraduate Women in Physics – 1 UH attendees (**January 2013**)

7<sup>th</sup> Annual Conference for Undergraduate Women in Physics – 2 UH attendees (**January 2012**)

UT Dallas REU – Khanh Nguyen (**2013**)

UH-Rice REU – Christina Stegemoller, Tristan Walker, Nicole Robinson, Lionel Flores (**2013**)

UT Dallas REU – Bryan Calcagno (**2012**)

National Society of Physics Students Honorable Mention Chapter (**2011-2012**)

Proctor and Gamble Internship – Travis Covert (**2012**)

Academic Undergraduate Advisor – Department of Physics – (**2006 – Present**)

National Science Foundation Graduate Fellowship – Thomas Markovich (**2012**)

National Science Foundation Graduate Fellowship – Cameron Williams (**2012**)

Goldwater Scholarship– Mason Biamonte- Senior Physics Major (**2012**)

National Society of Physics Students Outstanding Chapter (**2010-2011**)

National Science Foundation Graduate Fellowship – Matthew Reichl (**2011**)

Goldwater Scholarship– Thomas Markovich- Senior Physics Major (**2011**)

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## **UNDERGRADUATE ADVISING ACCOMPLISHMENTS (continued)**

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National Society of Physics Students Research Award – Thomas Markovich (2011)

Organized 1<sup>st</sup> Annual Symposium for Undergraduates in Physics (Spring 2011)

College of Natural Sciences and Mathematics Valedictorian- Corey Henderson (Spring 2011)

Goldwater Scholarship- Matthew Reichl – Senior Physics Major (2010)

Texas Section of APS Hyer Award - Thomas Markovich Senior Physics Major (2010)

SURF Scholarships – Thomas Markovich, Aljoscha Puschtein, Ian Mitchell and Matthew Reichl (2010, 2011)

Physics majors actively participate in Undergraduate Research Day and have won awards annually. Place physics major in research positions in the Department of Physics

## **HONORS AND AWARDS**

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American Physical Society Physics Teacher Education Coalition (PhysTEC) Fellows 2017

UH Group Teaching Excellence Award 2017

UH Provost Academic Advising Award 2011

National Science Foundation Career Award 2003

National Research Council Post Doctoral Associateship Award 1998

North American Molecular Beam Epitaxy Conference Student Paper Award 1997

Ford Foundation Dissertation Fellowship 1996-1997

NASA Graduate Research Program Fellowship 1992-1995

Zonta International Foundation Amelia Earhart Fellowship Award 1994

Sigma Chi Honor Society Graduate Student Poster Award 1991

American Physical Society Scholarship 1986-1988

Environmental Protection Agency Fellowship 1985-1986

Outstanding Sophomore and Junior in Physics

## **PROFESSIONAL MEMBERSHIPS**

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International Study Association of Teachers and Teaching

National Association of Research in Science Teaching

American Association of Physics Teachers

National Society of Black Physicist

American Educational and Research Association

American Physical Society

Alpha Chi Honors Society

Sigma Pi Sigma Honor Society

Society of Physics Students

## **PROFESSIONAL SERVICES**

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Conference Planner – Texas Section of the American Physical Society Fall 2018 Meeting (January 2017 – Present)

Conference for Undergraduate Women in Physics – Negotiations Session Facilitator (January 2017)

NSF Career Proposal Panelist Division of Electronic and Photonic Materials (October 2016)

National Society of Black Physicist Fall Meeting Professional Development Session Facilitator (October 2016)

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## **PROFESSIONAL SERVICES (continued)**

APS 2016 National Mentoring Conference at UH – UH Liaison to Conference Organizers (October 2016)

American Physical Society Professional Development Workshop Facilitator (June 2016)

Treasurer - National Society of Black Physicist (April 2016 – Present)

NSF – Division of Materials Research Committee on Visitor (August – November 2015)

American Physical Society Train the Trainer Professional Development Workshop (March 2015)

Reviewer for American Physical Society Bridge Program (July 2014)

American Physical Society Leadership Convocation (February 2014)

Member-at-Large - Texas Section of the American Physical Society (September 2013 – Present)

American Physical Society Committee on the Status of Women in Physics – Site Visit to Colorado State University (February 2013)

Session Chair, 6<sup>th</sup> International Technology, Education and Development Conference (March 2012)

American Physical Society Fund Raising Committee for the Beuchet Award (2010 – 2013)

Article Reviewer, Physica B (November 2013)

NSF Panel Reviewer (June 2011)

Proposal Reviewer, National Science Foundation (March 2011)

Article Reviewer, IEEE Journal of Quantum Electronics (January 2011)

Panel Reviewer, National Science Foundation (October 2010)

Proposal Reviewer, National Science Foundation (February 2010)

Proposal Reviewer, US Civilian Research and Development Foundation (February 2010)

Session Chair/Planner, American Physical Society March Meeting (February 2009)

Proposal Reviewer, National Science Foundation (January 2009)

Committee on Visitors for Division of Materials Research (February 2008)

Article Reviewer, IEEE Journal of Quantum Electronics (April 2008)

Proposal Panelist, National Science Foundation (October 2007)

Proposal Reviewer, National Science Foundation (March 2007)

Proposal Reviewer, National Science Foundation (March 2006)

Proposal Review Panel, National Science Foundation (February 2006)

Proposal Reviewer, National Science Foundation (November 2005)

Article Reviewer, IEEE Journal of Quantum Electronics (October 2005)

Book Reviewer, Addison Wesley Publishing, (May 2005)

Proposal Reviewer, National Science Foundation (April 2005)

Proposal Reviewer, Department of Energy (July 2004)

Proposal Reviewer, US Civilian Research and Development Foundation (October 2004)

Session Chairman, Materials Research Society Fall Meeting (December 2003)

Martin Luther King Visiting Professor, Wayne State University, Detroit, MI (October 2003)

Proposal Reviewer, US Civilian Research and Development Foundation (April 2003)

Article Reviewer, IEE Journal of Optoelectronics (Spring 2003)

Article Reviewer, IEE Journal of Quantum Electronics (Fall 2003)

Guest Speaker, UH Louis Stokes Alliance for Minority Participation Conference (August 2000)

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## **UNIVERSITY, COLLEGE AND DEPARTMENT SERVICES (continued)**

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### **University:**

UH Advance Women of Color Activity Planning Committee (June 2016 – Present)  
Provost Summer Read Book Selection Committee (Feb 2016 – December 2016)  
UH Advance Departmental Mentoring Pilot Committee (August 2015 – Present)  
UH Advance Advocate (January 2015 – Present)  
Advance Leadership Fellows Committee (October 2014 – Present)  
UH ADVANCE Professional Development/Engagement Committee (September – Present)  
NSF Advance Proposal Working group #2 (June 2013 – August 2013)  
Faculty Senate – Undergraduate Committee (August 2012 – Present)  
UH Teamwork Assessment Committee (March 2012 - Present)  
UH - NSF Advance Working Group 2 (June 2013 – August 2013)  
UH Teamwork Assessment Committee (2013 - Present)  
UH Foundation of Excellence Transitions Dimensions Committee (February 2014 - Present)  
UH NSF Career Award Mentoring Roundtable Discussions (March 2012)  
Roundtable Discussion Leader - Friends of Women's Studies 16th Annual Table Talk Luncheon and Fundraiser (February 2012)  
Mu Delta Health Professions Society Pie Toss Volunteer (April 2012)  
UH NSF Career Award Mentoring Roundtable Discussions (April- May 2012)  
Chair - UH Office of the Vice Chancellor/Vice President of Academic and Faculty Affairs Committee of Inquiry (Spring 2012)  
Representative- Institutional Effectiveness Plan Workshop (Fall 2012)  
UH Search Committee for the Vice Chancellor/Vice President of Research and Technology Transfer (June 2010 – August 2010)  
UH - Texas College Readiness Initiative Committee (Fall 2008 – 2010)  
Featured in Presidents Booklet (Spring 2008)  
UH Institutional Effectiveness Committee (Spring 2007)  
UH FDIP Proposal Review Committee (Spring 2008)  
UH Quality Enhancement Planning Committee (Summer 2007 – 2008)  
Faculty Development Leave and Teaching Excellence Committee (April 2006)  
UH Representative for the Office of the Vice President for Research – Ronald E. McNair Scholarship Gala (February 2006)  
Representative for the University of Houston Office of the Vice President for Research - Minority Access 4<sup>th</sup> National Role Models Conference (September 2003)  
African American Studies Visiting Scholar Committee (Spring 2002)  
African American Studies Graduate Fellowship Committee (Spring 2002)  
Focus Group on the Status of Women at University of Houston (Spring 2001)  
Representative for the University of Houston, Greater Houston Women's Foundation Luncheon (Spring 2001)

### **College:**

Educate Texas Learning Tour (June 2017)  
NSM Summer Bridge Program Department of Physics Liason (March 2017 – Present)  
NSM Curriculum Committee (Fall 2006 – Present)  
NSM Academic Scholarship Committee (200- Present)



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## **UNIVERSITY, COLLEGE AND DEPARTMENT SERVICES (continued)**

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NSM Butler Teaching Excellence award Committee (2011 – 2016)  
Faculty Senate – Undergraduate Core Sub Committee (2012 - 2016)  
NSM Summer Bridge Program Department of Physics Liason (March 2014 – August 2015)  
NSM Representative - UH Black Alumni Association Scholarship Gala (March 2014)  
NSM Grievance Committee – Member (July 2010)  
Rice-University of Houston Alliance for Graduate Education and the Professoriate (AGEP) –  
University of Houston NSM Chemical and Physical Science Leader (2004- 2009)  
NSM Convocation (May 2002, 2003, 2004, 2006)

### **Department:**

Astronomy society at the University of Houston Faculty Advisor (2017 – Present)  
Instructional Faculty Search Committee (September 2016 – Present)  
Seismic Faculty Search Committee (January 2017 – Present)  
NSM Spring Convocation (2010, 2011, 2012, 2013, 2016)  
Facilitator – Science Teacher Equity Project (2013 – Present)  
Chairman, Department of Physics Undergraduate Studies Committee (2006 – Present)  
Department of Physics Undergraduate Academic Faculty Advisor (2006- Present)  
Department Representative - UH Cougar Connection (March 2014 and January 2015)  
Society of Physics Students Faculty Advisor (2006-Present)  
Sigma Pi Sigma Faculty Advisor (2006- Present)  
American Physical Society Department of Physics Video (2014)  
NSM Fall Convocation (2013, 2016)  
Representative- Spin-Up Workshop, Austin, TX (Spring 2012)  
Department of Physics, Search Committee for Energy Faculty Position (Spring 2011)  
Judge - Texas Center for Superconductivity Symposium (December 2010)  
Department of Physics, Search Committee for Particle Physics Faculty Position (Spring 2010)  
Recruiter for Department of Physics at “The Event” (February 2008)  
Department of Physics Library Committee (2000 – 2008)  
Chairman - Department of Physics, Search Committee for Nano-science Faculty Position (Spring  
2007)  
Department of Physics Representative – Air Force Luncheon (February 2007)  
Undergraduate Studies Committee Department of Physics, University of Houston (2000 –2006)  
Library Committee Department of Physics, University of Houston (2000 – 2006)  
Representative for the Department of Physics – Southeast Universities Research Association  
Workshop (April 2005)  
Monthly Speaker, University of Houston Society of Physics Students (Spring 2002)  
Recruiter, National Conference of Black Physics Student (Spring 2001)  
Faculty Search Committee, Department of Physics (2001)  
Recruiter for the University of Houston, Department of Physics, National Conference of Black  
Physics Students (March 2001).  
Search Committee for Director of the Texas Center for Superconductivity (2001)

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## **SERVICE ON THESIS/DISSERTATION COMMITTEE MEMBERS (continued)**

1. Dissertation Committee Member – Ayo Kolapo, “Topological Phases in Condensed Matter Systems and its Consequences,” (Physics, October 2017 – Present).
2. Dissertation Committee Member – Kaveh Shervin, “Strategies towards Development of High Efficiency Low Cost III-V Solar Cells,” (Physics, July 2017 – November 2017).
3. Dissertation Committee Member – Jing Wu, “Green’s Theorem Methods for Separating the Reference Wave and Preserving Reflection Data, and Deghosting, for Towed Streamer, onshore and Ocean Bottom Acquisition, with Horizontal or Variable Topography Acquisition Surface: Implications for Multiple Removal, Structural Determination and Amplitude Analysis; II. Inverse Scattering Series Internal Multiple Attenuation in an Absorptive Dispersive Earth, without Knowing, Needing or Estimating Elastic or Anelastic Subsurface Properties,” (Physics, March 2017 - July 2017).
4. Dissertation Defense – Zhen Zhang, “Impact of the Topography of the Acquisition Surface on Preprocessing and subsequent Free Surface Multiples Elimination and Depth Migration: Examining the Issue and Providing a Preprocessing Response that accommodates a Variable Topography- Thereby Allowing Subsequent Multiple removal and Imaging Methods to deliver Their Promise and Potential,” (Physics - March 2017 - July 2017).
5. Dissertation Committee Member - Michael Fitchette, “Advanced Quantum Engineered Semiconductors for High Efficiency Photovoltaics” (Physics - March 2017 – Present)
6. Dissertation Committee Member – Jacob Ezerski, (Physics - March 2017 – Present)
7. Dissertation Committee Member –Ilya Davydov, “Interfacial studies on semiconducting and hydrophobic substrates “(Chemistry – October 2016 – Present)
8. Dissertation Committee Member – Khim Kharel, “Next Generation of Quantum Engineered Compound semiconductor Solar Cells: for integration With Si PV,” (Physics - March 2016 – Present)
9. Dissertation Committee Member – Giwan Katwal, “The Development of nanostructures and Their Application in the Gas Sensor,” (Physics- June 2015 – June 2017)
10. Dissertation Committee Member – Pawanjit Kaur (Physics – June 2015 – July 2017)
11. Dissertation Committee Member – Surendra Maharjan, “Nonlinear Optics and Optical Limiting Materials” (Physics – August 2015 – Present)
12. Dissertation Committee Member – Sladjana Maric (Physics – March 2010 - Present)
13. Dissertation Committee Member – Ma Chao (Physics – June 2014 – July 2016)
14. Dissertation Committee Member – Aida Torabi (Physics – March 2014 – December 2016)
15. Dissertation Committee Member – Manori Gunasekera, “Real-Time Characterization of Self-Assembled Quantum Dots (SAQD) by Reflection High Energy Electron Diffraction (RHEED),” (Physics – May 2011 - April 2015)
16. Dissertation Committee Member – Gopi Krishna, “Dilute Nitride Multi Quantum Well Solar Cells,” (Physics – May 2011 – December 2014)
17. Dissertation Committee Member – Ruiteng Li, “Lattice Matched Buffer Layers for InGaN Growth,” (Physics – January 2013, November 2014)
18. Dissertation Committee Member – Ananya Debnath, “GaN/InGaN NC growth by Plasma Assisted Molecular Beam,” (Physics – April 2013- August 2015)

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## **SERVICE ON THESIS/DISSERTATION COMMITTEE MEMBERS (continued)**

19. Dissertation Committee Member – Wei “Ivy” Wang, “Fabrication and Design of Textured 2D Sub-wavelength Grating for Improving Light Harvesting in Multi-junction III-V Photovoltaic” (Physics – March 2013- September 2015)
20. Dissertation Committee Member – Jinlong Yang, “Extending the Inverse Scattering Series Free-Surface Multiple Elimination and Internal Multiple Attenuation Algorithms By Incorporating the Source Wavelet and Radiation Pattern: Examining and Evaluating the Benefit and Added Value,”( Physics – August 2012 – July 2014)
21. Dissertation Defense committee member – Lin Tang, “Developing and Analyzing Green’s theorem Methods to Satisfy Prerequisites of Inverse Scattering Series Multiple Attenuation for Different Types of Marine Acquisition and Extending Prerequisite Satisfaction to On-Shore exploration,” (Physics – June 2012 – July 2014)
22. Dissertation Committee Member – Amrita Haldar, “Development of Flexible Organic Photovoltaics Via Inkjet Printing,” (March 2011 - April 2013)
23. Master’s Thesis committee member – Joon Jang, “Sum frequency Vibrational Depletion Spectroscopy,” (Chemistry – April 2013)
24. Master’s Thesis committee member – Vasu Deva (Chemistry –April 2013)
25. Dissertation Committee Member – Xin Zhang, “Organic Photovoltaic Solar Cells,” (Physics – November 2013)
26. Dissertation Committee Member – Mozhddeh Niazmand, “An Inverse Scattering Approach to Attenuating Internal Multiple From Quasi-Elastic Ocean Bottom” (Physics – January 2011 - August 2012)
27. Dissertation Committee Member – Zhiqiang Wang, “Progressing Inverse Scattering Series Depth Imaging Without the Velocity Model for Larger Contrast and Laterally Variable Media” (Physics – August 2012)
28. Dissertation Committee Member – Xin Zhang, “Organic Photovoltaic Solar Cells,” (Physics – May 2012)
29. Dissertation Committee Member – Besar Wickasono, “Dynamic and Transparent Support for Managing Memory Bottlenecks in Open MP” (Computer Science - December 2011)
30. Dissertation Committee Member - Rabi Ebrahim, “Detailed study of Filamentary Bipolar EPIR Switching in  $\text{Cu}_x\text{O}$  and Amorphous silicon RRAM,” (Physics – December 2011)
31. Dissertation Committee Member – Sumit Abhichandani, “Efficient Formation of Radiation Resistant Carbon Films for Nanoscale Ion and Neutral Particle Proximity Lithography,” (Electrical Engineering – October 2011)
32. Dissertation Committee Member – Shih-Ying-Hsu, “Efficacy Determination and Efficiency Advances for the Inverse Scattering Series Internal Multiple Removal: An Update, Land Data, Testing and Evaluation,” (Physics - July 2011)
26. Dissertation Committee Member – Magnus Legemah, “Synthesis, Electrochemical and Spectroscopic Characterization of Diruthenium Complexes in High and Low Oxidation States,” (Chemistry – August 2011)
27. Dissertation Committee Member – Di Chang, “Developing Multidimensional Depth Imaging Algorithm in Seismic Exploration,” (Physics – May 2011)
28. Dissertation Committee Member – Rabi Ebrahim, “EPIR Switching in  $\text{Cu}_x\text{O}$  Thin Films,” (Physics – May 2010, 2011)

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## **SERVICE ON THESIS/DISSERTATION COMMITTEE MEMBERS (continued)**

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29. Dissertation Committee Member – Imee Martinez – Characterization of Imidazolium-Based room Temperature Ionic Liquids in a Contained Environment,” (Chemistry- November 2007 - May 2010)
30. Thesis Defense committee member – Carol Voight, Physics Education: Math Deficiencies of Students Entering a General Physics Course and Their Affect on Student Performance,” (Physics - April 2010)
31. Dissertation Committee Member – Omar Lozano, “Consequences of Nb-doping to  $\text{In}_2\text{O}_3$ , a Magneto-Transport and Optical Study of a Novel Thin Film Transparent Conductor,” (Physics – December 2009)
32. Dissertation Committee Member – Priya Chinta, “Magneto-Transport and Optical Study of Al-doped ZnO Thin Films,” (Physics – December 2009)
33. Dissertation Committee Member – Hans Infante, “Electrical Detection, Mechanism and Analysis of Biological Enzyme Activity in Live Cells,” (Physics – December 2008)
34. Dissertation Committee Member – Z. W. Xing, “Electric pulse Induced Resistance switching effect and related properties in Manganite Oxide Structures,” (Physics – December 2009)
35. Oral Progress Exam Committee – Magnus Legemah, “Synthesis and characterization of Paddle Wheel Diruthenium (III,III), (III,II) Complexes,” (Chemistry - December 2008)
36. Dissertation Committee Member – Mansi Bhargava “High Dose Ion Implanted Resist Removal Using Plasma Ashing” (Electrical Engineering - December 2007)
37. Dissertation Proposal Committee – Manwen Yao, “Biosensor development Based on Fluorescence and Long range Surface Plasmon Resonance,” (Electrical Engineering - December 2007)
38. Honors Thesis Defense committee - , Arafat Hashwani, “Derivation of the Oxygen Dissociation Curves and Derivation of the Mathematical equations for  $\text{CO}_2$  Dissociation Curves in Blood” (Chemical Engineering - May 2007)
39. Qualifying Exam committee member – Mansi Bhargava “Oxidation of Ion Implanted Silicon Wafers During Plasma Ashing” (Electrical Engineering – December 2004 - December 2006)
40. Dissertation Committee Member – A. M. Milinda Abeykoon, “HgSe Semiconductor Nanoclusters in Zeolites” (Physics – November 2006)
41. Dissertation Committee Member – Gustavo Cardenas “Quantum Tunneling in Condense Matter and Biological Systems” (Physics – July 2006)
42. Dissertation Committee Member – Casey Romero “Sum Frequency Vibrational Spectroscopy of the Solid/Liquid Interface” (Chemistry – November 2003 - April 2006)
43. Dissertation Committee Member – Noureddine Anibou “X-ray Study of the Sputtered deposited Ni-Al Thin films” (Physics –April 2006)
44. Master’s Thesis Defense committee member – Candic Robertson, “Synthesis, Structure and Properties of Organic-Based Copper Iodides,” (Chemistry – October 2003 - January 2005)
45. Master’s Thesis Defense committee member – Aristotelis Fotkatzikis, “Chemical Beam Epitaxy of Ga(In)AsN on Ga As,” (Physics – August 2004)
46. Master’s Thesis Defense Committee – Cynthia Singh (Electrical Engineering-Spring 2002)

# Donna W. Stokes

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## COMMUNITY SERVICE (continued)

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Energy Day – Physics Demonstrations (October 2017)  
StatOil Summer Camp – Physics Demonstrations (June and July 2017)  
UH Staff Council Take Your Child to Work Day – Physics Demonstrations (June 2017)  
Girls Exploring Math and Science (GEMS) Houston Museum of Natural Sciences – Physics Demonstrations (February 2016, February 2017)  
Girls Inc Summer Camp – Camp BitSmart Volunteer organizer (July 2016, 2017)  
Cougar STEM Camps (3 day outreach) – Physics Demonstrations (July 2016)  
San Jacinto Community College STEMtastic Adventures Summer Camp – Physics Demonstrations (June 2016)  
ExxonMobil Bernard Harris Science Camper – Physics Demonstrations (June 2017, 2016, 2015, 2014 and 2013)  
Adventures in STEM – A Houston Area Science and Engineering Festival sponsored by Dow Chemical Physics Demonstrations (March 2017, 2016)  
UH Calculus I Course – Physics Demonstration (October 2015)  
Bonnie Dunbar STEM Camps – Physics Demonstrations (July 2015)  
Pasadena Memorial High School UH Visit – Physics Demonstrations (April 2015)  
Bales Intermediate School – Physics Demonstrations (May 2015)  
Adventures in STEM - A Houston Area Science and Engineering Festival sponsored by Dow Chemical – Physics Demonstrations (March 2015)  
Girls Exploring Math and Science (GEMS) Houston Museum of Natural Sciences – Physics Demonstrations (February 2015)  
Alvin Independent School District’s Mary Marek Elementary School UH Visit (January 2015)  
Science Fair Judge, UH Charter School (December 2015, 2013, 2011, 2010, 2009 and 2008)  
John Marshall Middle School Academy of Fine Arts - Black History Month Celebration Speaker (February 2014)  
Mars Rover Competition, Judge and Representative for Physics Department (March 2014, 2013, 2012, 2011 and 2010)  
Lab Tour - Alvin Independent School District’s Mary Marek Elementary – Physics Demonstrations (January 2014 and December 2012)  
Pasadena Memorial High School UH Visit – Physics Demonstrations (January 2014)  
Brigham Young Recruiter Visit (November 2013)  
Westwood Elementary – Physics Demonstrations (May 2013)  
Quail Valley Middle School – Physics Demonstrations (May 2013, 2011, 2010)  
Horace Mann Junior High School Career Day – Physics Demonstrations (May 2013 and 2012)  
Earth Day- Discovery Greens Houston – Physics Demonstrations (April 2013)  
University of Houston NMS/BP Extreme Boating Event – Physics Demonstrations (April 2013)  
Lab Tour - Alvin Independent School District’s Mary Marek Elementary (January 2012)  
University of Houston NMS/BP Extreme Boating Event – Physics Demonstrations and Judge (April 2010, 2011)  
Laboratory Tour – Kletzman Intermediate School (November 2011)  
Science and Engineering Fair of Houston Judge, Ninth Grade (March 2010, 2009, 2008)  
Laboratory Tour - HISD Coop Elementary School (November 2009)  
Outreach Visit – Love Missionary Baptist Church Vacation Bible School (July 2008)

# Donna W. Stokes

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## COMMUNITY SERVICE (continued)

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Laboratory Tour - HISD Austin High School (February 2008)  
Outreach Visit – HISD Patrick Henry Middle School (November 2009)  
Science and Engineering Fair of Houston Judge, Junior Division (March 2007 and 2006)  
Laboratory Tour - Bear Branch Elementary School (May 2006)  
Judge, Sigma Xi Research Day Poster Contest, University of Houston, (April 2005)  
Science Fair Judge, Peterson Elementary (January 2005)  
Conference for the Advancement of Science Teaching 2003 Volunteer for University of Houston Recruiters Booth (November 2003)  
Science and Engineering Fair of Houston Judge, APS Special Awards, Junior Division (2001 - 2003)

## PUBLICATIONS

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1. The Narrative Nature of Embodied Knowledge: A Cross-Study Analysis of Teaching, Learning, and Living, Craig, C., Evans, P., Verma, R., **Stokes, D.**, Curtis, G., and Zou, Y., (in press). *Teaching and Teacher Education* (2018).
2. Craig, C., Evans, P., **Stokes, D.**, Verma and Abrol, B., (in press). The Influence of Parents on Undergraduate and Graduate Students' Entering the STEM Disciplines and STEM Careers. *International Journal of Science Education* (2018).
3. 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., (in press) Propagation of THz acoustic wave packets in GaN at room temperature, *Appl. Phys. Lett.*, **112**, 061903 (2018)
4. Forrest, R.L., **Stokes, D.W.**, Burrige, A.B. and Voight, C.D., Math Remediation Intervention for Student Success in the Algebra-Based Introductory Physics Course, *Physical Review Physics Education Research*, 13, 20137 (2017).
5. **Stokes, D.**, Evans, P. and Craig, C., Developing STEM Teachers through both Informal and Formal Learning Experiences, Search and Research: *Teacher Education for Contemporary Context*. Editors Juanjo Mena, Ana Garcia Valcarcel, Francisco Garcia-Penalvo and Marta Martin del Pozo, Publiusher Ediciones Universidad de Salamanca (2017).
6. Attracting, preparing and retaining teachers in high need areas: A science as inquiry model of teacher education. Chapter in M. Peters, B. Cowie & I. Mentor (Eds.) *A companion to research in teacher education.*, Craig, C., Evans, P., **Stokes, D.** & Bott, S., New York, NY: Springer Publishing. (2017).
7. **Stokes, D.**, Evans, P., Craig, C., & Bott, S. (2016). Recruitment, Retention and Preparation of Secondary Physics and Chemistry Teachers. *American Physical Society Forum on Education Newsletter* (Fall 2016).

# Donna W. Stokes

Curriculum Vitae, Page 15

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## PUBLICATIONS (continued)

8. Pre-testing and early Intervention in Introductory General Physics I, Forrest, R.L., **D.W. Stokes**, and Voight, C.D., Publications from the 6<sup>th</sup> International Technology Education and Development Conference, Valencia, Spain (March 2012).
9. Effect of strain on the growth of InAs/GaSb superlattices: An x-ray diffraction study J. H. Li, **D. W. Stokes**, J. C Wickett, O. Caha, K. E. Bassler, and S. C. Moss *J. Appl. Phys.*, **107**, 123504 (2010).
10. Short Period InAs/GaSb superlattices for mid-infrared photodetectors, H.J. Haugan, F. Szmulowicz, G.J. Brown, B. Ullrich, S.R. Munshi, S. Elhamri, J.C. Wickett and **D.W. Stokes**, *Phys. Stat. Sol.*, **4**, 1702-1706 (2007).
11. Growth of Short-Period InAs/GaSb Superlattices, H.J. Haugan, K. Mahalingam, G.J. Brown, W.C. Mitchal, B. Ullrich, L. Grazulis, S. Elhamri, J.C. Wickett and **D.W. Stokes**, *J. Appl. Phys.*, **100**, 123110-1- 123110-5 (2006).
12. X-ray Diffraction Analysis of an Osmium Silicide Epilayer Grown on Si (100) by Molecular Beam Epitaxy, F.Z. Amir, R.J. Cottier, T.D. Golding, W. Donner, N. Anibou and **D.W. Stokes**, *J. Cryst. Growth*, **294**, 174-178 (2006).
13. Effects of Interfacial Strain on the Morphological Instability of Semiconductor Epitaxial Films, J.H. Li and **D.W. Stokes**, *Appl. Phys. Lett.*, **89**, 111906-1 – 111906-3 (2006).
14. X-ray diffraction Analysis of Interdiffusion in Al<sub>1-x</sub>In<sub>x</sub>As<sub>1-y</sub>Sb<sub>y</sub> Multilayers, R.L. Forrest, **D.W. Stokes**, J.H. Li, R. Lukic-Zrnica and T.D. Golding, *J Vac. Sci. Technol. B*, **24**, 1127-1129 (2006).
15. Effects of Interfacial Bonds on Morphological Instability of Slightly Lattice Mismatched Epitaxial Thin Films, J.H. Li, **D.W. Stokes**, O. Caha, S.L. Ammu, J. Bai, K.E. Bassler, and S.C. Moss, *Science Highlight from the National Synchrotron Light Source*, (November 2005).
16. Morphological Instability in InAs/GaSb Superlattices Due to Interfacial Bonds, J.H. Li, **D.W. Stokes**, O. Caha, S.L. Ammu, J. Bai, K.E. Bassler, and S.C. Moss, *Phys. Rev. Letters*, **95**, 96104-1 – 96104-4 (2005).
17. Molecular Beam Epitaxial Growth of  $\beta$ -Fe(Si<sub>1-x</sub>Ge<sub>x</sub>)<sub>2</sub>, R.J. Cottier, K. Hossain, F.Z. Amir, J.B. House, B.P. Gorman, J.M. Perez, O.W. Holland, T.D. Golding and **D.W. Stokes**, *Proceeding from the North American MBE Conference, J. Vac. Sci. Technol. B*, **23**, 1299 - 1303, (2005).

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## PUBLICATIONS (continued)

18. Optical and Structural Properties of InAs/GaSb Nanostructures, **D.W. Stokes**, J.H. Li, R.L. Forrest, S.L. Ammu, J.C. Lenzi, S.C. Moss, B. Nosh, E.H. Aifer, B. Bennett and L.J. Whitman, *Materials Research Society Symposia Proceedings*, **794**, 271-276 (2004).
19. X-ray Diffraction Analysis of Lateral Composition Modulation in InAs/GaSb Superlattices Intended for Infrared Detector Applications, **D.W. Stokes**, R.L. Forrest, J.H. Li, S.C. Moss, B. Nosh, B. Bennett, L.J. Whitman and M. Goldberg, *IEE – Optoelectronics, Proceedings from the 5<sup>th</sup> International Conference on Mid-Infrared Optoelectronic Materials and Devices*, **150**, 420-423 (2003).
20. Lateral Composition Modulation in InAs/GaSb Superlattices, **D.W. Stokes**, R.L. Forrest, J.H. Li, S.C. Moss, B. Nosh, B. Bennett, L.J. Whitman and M. Goldberg, *J. Appl. Phys.*, **93**, 311-315 (2003).
21. Electrical and Magneto Transport in  $Al_{1-x}In_xAs_{1-y}Sb_y$ /GaSb Multilayers, R. Lukic-Zrnica, **D.W. Stokes**, C.L. Littler and T.D. Golding, *Semicond. Sci. Tech.*, **16**, 353-357 (2001).
22. Mid-infrared W quantum-well lasers for noncryogenic continuous-wave operation, C.L. Felix, W.W. Bewley, I. Vurgaftman, R.E. Bartolo, **D.W. Stokes**, J.R. Meyer, M.J. Yang, H. Lee, R. J. Menna, R.U. Martinelli, D.Z. Garbuzov, J.C. Connolly, M. Maiorov, A.R. Sugg, and G.H. Olsen, *Appl. Opt.*, **40**, 806-811 (2001).
23. Type II mid-infrared lasers, Jerry R. Meyer, William W. Bewley, Igor Vurgaftman, Christopher L. Felix, Linda J. Olafsen, Edward H. Aifer, **Donna W. Stokes**, Ming J. Yang, Hao Lee, Raymond J. Menna, Ramon U. Martinelli, Dmitri Z. Garbuzov, John C. Connolly, Mikhail A. Maiorov, Alan R. Sugg, and Gregory H. Olsen, *Proc. SPIE*, **3947**, 100 (2000).
24. High Temperature W Diode Lasers Emitting at  $3.3\ \mu\text{m}$ , L. J. Olafsen, W.W. Bewley, I. Vurgaftman, C.L. Felix, E.H. Aifer, **D.W. Stokes**, J.R. Meyer, H. Lee, R.J. Menna, R.U. Martinelli, D.Z. Garbuzov, M. Maiorov, J.C. Connolly, A.R. Sugg, and G.H. Olsen, *Materials Research Society symposia proceedings*, **607**, 95 (2000).
25. Optical-Pumping Injection Cavity (OPIC) Mid-IR “W” Lasers with High Efficiency and Low Loss, W.W. Bewley, C.L. Felix, I. Vurgaftman, **D.W. Stokes**, J.R. Meyer, H. Lee, and R.U. Martinelli, *IEE Phot. Tech. Lett.* **12**, 477-479 (2000).
26. Continuous-Wave Operation of  $\lambda = 3.25\ \mu\text{m}$  Broadened Waveguide “W” Quantum-Well Diode Lasers up to  $T=195\ \text{K}$ , W.W. Bewley, H. Lee, I. Vurgaftman, R.J. Menna, C.L. Felix, R.U. Martinelli, **D.W. Stokes**, D.Z. Garbuzov, J.R. Meyer, M. Maiorov, J.C. Conolly, A.R. Sugg, and G.H. Olsen, *Appl. Phys. Lett.*, **76**, 256-258 (2000).



# Donna W. Stokes

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## PUBLICATIONS (continued)

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27. High Temperature Diode and Optically-Pumped Mid-IR Lasers with Type-II “W” Quantum Wells, W.W. Bewley, L.J. Olafsen, I. Vurgaftman, C.L. Felix, E.H. Aifer, **D.W. Stokes**, J.R. Meyer, M.J. Yang, H. Lee, R.J. Menna, R.U. Martinelli, D.Z. Garbuzov, J.C. Conolly, M. Maiorov, A.R. Sugg, and G.H. Olsen, *Optics and Photonics News*, **10**, 18-19 (1999).
28. Type-II Quantum-Well “W” Lasers Emitting at  $\lambda = 5.4 - 7.3 \mu\text{m}$ , **D.W. Stokes**, L.J. Olafsen, W.W. Bewley, I. Vurgaftman, C.L. Felix, E.H. Aifer, J.R. Meyer, and M.J. Yang, *J. Appl. Phys.*, **86**, 4729-4733 (1999).
29. Thermal Characterization of Diamond-Pressure-Bond Heat Sinking for Optically Pumped Mid-Infrared Lasers, W.W. Bewley, C.L. Felix, E.H. Aifer, **D.W. Stokes**, I. Vurgaftman, L.J. Olafsen, J.R. Meyer, M.J. Yang, and H. Lee, *IEEE J. Quant. Electron.*, **35**, 1597-1601 (1999).
30. High-Efficiency Midinfrared “W” Laser with Optical Pumping Injection Cavity, C.L. Felix, W.W. Bewley, I. Vurgaftman, L.J. Olafsen, **D.W. Stokes**, J.R. Meyer, and M.J. Yang, *Appl. Phys. Lett.*, **75**, 2876-2878 (1999).
31. High-Temperature Continuous-Wave Operation of Optically-Pumped Type-II “W” Lasers from 3-6.3 microns, W.W. Bewley, C.L. Felix, I. Vurgaftman, **D.W. Stokes**, L.J. Olafsen, E.H. Aifer, J.R. Meyer, M.J. Yang, B.V. Shanabrook, H. Lee, R.U. Martinelli, J.C. Connolly, and A.R. Sugg, *Technical Digest, Summaries of papers presented at the Conference on Lasers and Electro-Optics, Optical Society of America*, **578**, 366 (1999).
32. High Temperature Continuous-Wave 3-6.1  $\mu\text{m}$  “W” Lasers with Diamond-Pressure-Bond Heat Sinking, W.W. Bewley, C.L. Felix, I. Vurgaftman, **D.W. Stokes**, E.H. Aifer, L.J. Olafsen, J.R. Meyer, M.J. Yang, B.V. Shanabrook, H. Lee, R.U. Martinelli, and A.R. Sugg, *Appl. Phys. Lett.*, **74**, 1075-1077 (1999).
33. Continuous-Wave Type-II “W” Lasers Emitting at  $\lambda = 5.4 - 7.1 \mu\text{m}$ , C.L. Felix, W.W. Bewley, L.J. Olafsen, **D.W. Stokes**, E.H. Aifer, I. Vurgaftman, J.R. Meyer, and M.J. Yang, *IEE Phot. Tech. Lett.*, **11**, 964-966 (1999).
34. Optically Pumped Mid-infrared Type-II Lasers: Advances in High Temperature Performance, C.L. Felix, W.W. Bewley, L.J. Olafsen, **D.W. Stokes**, E.H. Aifer, I. Vurgaftman, J.R. Meyer, M.J. Yang, H. Lee, R.U. Martinelli, J.C. Connolly, A.R. Sugg and G.H. Olsen, *Proceedings of the SPIE-The International Society for Engineering*, **3628**, 130-139 (1999).
35.  $\text{Al}_{1-x}\text{In}_x\text{As}_{1-y}\text{Sb}_y/\text{GaSb}$  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).

# Donna W. Stokes

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## **PUBLICATIONS (continued)**

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36.  $\text{Al}_{1-x}\text{In}_x\text{As}_{1-y}\text{Sb}_y/\text{GaSb}$  Heterojunctions and Multilayers Grown by Molecular Beam Epitaxy for Effective Mass Superlattices. **D. Washington**, T. Hogan, P. Chow, T. Golding, C. Littler and U. Kirschbaum, *J. Vac. Sci. Tech. B*, **16**, 1385-1388 (1998).

## **INVITED TALKS (continued)**

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1. "Professional Skills for Women in Science," Conference for Undergraduate Women in Physics, Rice University, Houston, TX (January 2017)
2. "Strategic Persuasion: Success in Meeting and Negotiations - A Program for Mentoring Graduate and Postdoctoral Students," National Society of Black Physicist 2016 Fall Workshop, Fermi National Labs, Batavia, IL (October 2016).
3. "Incorporation of Inquiry-Based Activities in Physics Classrooms for Pre-service Teachers," Texas Tech Department of Physics Colloquia, Lubbock, Texas (October 2014).
4. "Implementation of Math Pre-testing and Tutorials for Improving Student Success in Algebra-based Introductory Physics Course," Texas Section of the American Physical Society, Lubbock, TX (October 2012).
5. "Structural and Optical Analysis of Nanostructures in InAs/GaSb Superlattices," Joint Conference of the National Society of Black Physicists and National Society of Hispanic Physicists, Austin, TX, September 2011.
6. "Structural and Optical Analysis of Nanostructure Formation in InAs/GaSb Superlattices," Sam Houston State University, Huntsville, TX, October 2011.
7. "Structural and Optical Analysis of InAs/GaSb Superlattices," University of Houston, Clearlake, Clearlake TX, March 2011.
8. "X-Ray Diffraction analysis of Nanostructured InAs/GaSb Superlattices for Infrared Detectors," Trinity University San Antonio, TX, April 2010.
9. "Effects of Nanostructure Formation in InAs/GaSb Superlattices," Texas Section of the American Physical Society meeting, El Paso, TX, October 2008.
10. "Self-Assembled Nanostructure Formation in InAs/GaSb Superlattices," Texas State University, San Marcos, TX, November 2007
11. "My Graduate School Experiences," Society of Engineering Students, Michigan State University, Lansing Michigan, September 2006.
12. "Self-Assembled Nanostructure Formation in InAs/GaSb Superlattices," Texas State University, San Marcos, TX, November 2007

# Donna W. Stokes

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## INVITED TALKS (Continued)

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13. “My Graduate School Experiences,” Society of Engineering Students, Michigan State University, Lansing Michigan, September 2006.
14. “Nanostructure Formation in InAs/GaSb Superlattices,” Michigan State University, Lansing MI, September 2006.
15. Effect of Interfacial Bonds and Strain on the Formation of InAs/GaSb Self Organized Nanostructures,” American Physical Society March Meeting, Baltimore, MD, March 2006.
16. “Lateral Composition Modulation in Antimonide based Superlattices Intended for Midinfrared Detectors,” Wayne State University, Detroit, MI, October 2003.
17. “The Importance of Nanotechnology to Our Futures, Detroit Academy for Science and Technology,” Detroit, MI, October 2003.
18. “The Structure of InAs Nanowires Formed in InAs/GaSb Superlattices,” University of Houston Society of Physics Students, Monthly Meeting, April 2002.
19. “X-ray Diffraction Analysis of Lateral Composition Modulation in III-V Semiconductor Superlattices,” University of North Texas, Denton, TX, March 2002.
20. “Continuing Success for Minority Science, Engineering and Mathematics Majors,” Louis Stokes Alliance for Minority Participation Conference, Southwest Texas University, San Marcos, TX, August 2000 “Midwave-Infrared Antimonide “W” Lasers: A Novel Optoelectronic Device,” University of Houston, Houston, TX, April 2000.

## CONTRIBUTED PRESENTATIONS

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1. “Developing STEM Teachers through both Informal and Formal Learning experiences,” **Stokes, D.**, Craig, C. and Evans, P., ISATT 18<sup>th</sup> Biennial International Conference on Teachers and Teaching, Salamanca Spain (July 2017).
2. “Increasing Preservice Retention through a Summer Internship Program,” Evans, P., **Stokes, D.**, Manuel, M., McAlister-Shields, L., 2017 UTeach National Conference, Austin, TX (May 2017).
3. “The Embodied Nature of Narrative Knowledge: A Cross-Study Analysis of Teaching, Learning and Living,” Craig, C., You, J., Zou, Y., **Stokes, D.**, Evans, P., Verma, R., & Curtis, G., American Educational Research Association Annual Meeting, San Antonio, TX (April 2017).

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## CONTRIBUTED PRESENTATIONS (continued)

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4. “The Influence of Parents on Undergraduate and Graduate Students’ Entering the STEM Disciplines and Careers,” Craig, C., **Stokes, D.**, Evans, P. and Verma, R., National Association for Research in Science Teaching (NARST) 2017 Annual International Conference, San Antonio, TX (April 2017).
5. “Using a Science as Inquiry Model to Prepare STEM Teachers in High Need Areas,” **Stokes, D.**, Craig, C. and Evans, P., National Association for Research in Science Teaching (NARST) 2017 Annual International Conference, San Antonio, TX (April 2017).
6. “From Cookbook to Inquiry in STEM Classrooms,” **Stokes, D.**, Evans, P., McAllister, L. with Noyce scholars, 2017 Western Regional Noyce Conference, Fresno, CA (February 2017).
7. “Implementing the 5E Lesson Plan in STEM Classrooms,” Evans, P., McAllister, L. and **Stokes, D.** with Noyce scholars, 2017 Western Regional Noyce Conference, Fresno, CA (February 2017).
8. “State of Mind: Integration of Growth Mindset Strategies in STEM Education Classrooms,” McAllister, L., Evans, P. and **Stokes, D.** with Noyce scholars, 2017 Western Regional Noyce Conference, Fresno, CA (February 2017).
9. “Incorporating Project-Based Learning into your STEM Classroom,” Evans, P. and **Stokes D.**, with Noyce Scholars, 2016 Western Regional Noyce Conference, San Diego, CA (November 2016).
10. “Incorporating Formative Assessment Strategies into your STEM Classrooms,” Evans, P. and **Stokes D.**, with Noyce Scholars, 2016 Western Regional Noyce Conference, San Diego, CA (November 2016).
11. “Noyce Internship Institute at the University of Houston: Professional Development for Noyce Interns,” **Stokes, D.**, Evans, P.K., Bott, S., Itzep, J., 2016 American Association for the Advancement of Science (AAAS) and the National Science Foundation National Conference, Washington, DC (July 2016).
12. “Recruitment, Preparation and Retention of STEM Students as High School Teachers at the University of Houston,” **Stokes, D.**, Evans, P., Bott, S., Itzep, J., 2016 American Association for the Advancement of Science (AAAS) and the National Science Foundation National Conference Washington, DC. (July 2016).

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## CONTRIBUTED PRESENTATIONS (continued)

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13. “Lifetime of THz coherent phonons in InGaN/GaN structures,” Doug Shin, A.A. Maznev, Jateen S. Gandhi, **Donna Stokes**, Rebecca Forest, Abdelhak Bensaoula, Chi-Kuang Sun,<sup>3</sup> and Keith A. Nelson, 15th International Conference on Phonon Scattering in Condensed Matter, Phonons 2015, University of Nottingham, UK (July 2015).
14. “Best Practices across Multiple Sections of Freshmen Biology, Physics, and Calculus,” A. Cheek, **D. Stokes** and J. West, Bridges to Success Conference, Victoria, TX (October 2015).
15. “Outcomes and Success of a High School Professional Development Program,” **D.W. Stokes**, M. S. Cheung, W. Dominey, P. K. Evans, R. Forrest, A. Kapral, and M. Suskavcevic, American Association of Physics Teachers, College Park, MD (July 2015).
16. “Successful Pre-testing and Early Intervention in Algebra-based Introductory Physics,” Rebecca Forrest, **Donna Stokes** and Andrea Burrige, Joint meeting of the Texas Section of APS and AAPT, Baytown Texas (March 2015).
17. “Incorporation of Inquiry-Based Activities in STEM Classrooms,” **Donna Stokes** and Paige Evans, NSF Western Region Robert Noyce Teacher Workshop, San Francisco, CA, (May 2014).
18. “Inquiry-Based High School Physics Teacher Professional Development at the University of Houston,” Rebecca Forrest, M. S. Cheung, W. Dominey, A. Kapral, and **Donna Stokes**, American Physical Society PhysTec Conference, Austin, TX (July 2014).
19. “Increasing the Potential of Physics and Chemistry Teachers through Formal and Informal Learning Experiences,” Paige Evans, Geoffrey Hart, Donna Stokes and Simon Bott, NSF Robert Noyce Teacher Scholarship Conference Workshop, Washington, DC (May 2013).
20. “Increasing the Potential of Physics and Chemistry Teachers in teachHOUSTON,” Paige Evans, Donna Stokes, R. Riley Hatch and Geoffrey Hart, Robert Noyce Teacher Scholarship Conference Workshop, Washington DC (May 2013).
21. “University of Houston Department of Physics Overview,” **Donna W. Stokes**, Rebecca Forrest and Gemunu Gunaratne, SPIN-UP Conference, Austin, TX, (May 2012).
22. Physics Problem Solving Course Creates Bridge for Student Success, Carol Voight and **Donna Stokes**, American Association of Physics Teachers Summer Meeting, Edmonton, Alberta, (July 2008).
23. “Physics Education: Math Deficiencies of Students Entering an Introductory Physics Course and its Effects on their Performance, Carol Voight, **D.W. Stokes**, University of Houston - Alliance for Graduate Education and the Professorate 2006 Summer Program, Houston, TX (July 2007).

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## CONTRIBUTED PRESENTATIONS (continued)

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24. Absorption Analysis of InAs/GaSb Superlattices Exhibiting Lateral Composition Modulation, J.C. Wickett, **D.W. Stokes**, 32nd Semiannual TcSUH Student Symposium, Houston, TX (December 2006).
25. Physics Education: A Continuing Study of Math Deficiencies of Students Entering an Introductory Physics Course and its Effects on their Performance, C.D. Voight, **D.W. Stokes**, L.T. Wood, University of Houston, – Alliance for Graduate Education and the Professorate 2006 Summer Program, Houston, TX (August 2006).
26. Effect of Interfacial Bonds and Strain on the Formation of InAs/GaSb Self Organized Nanostructures, **D.W. Stokes**, American Physical Society March Meeting, Baltimore, MD, (March 2006).
27. Absorption Analysis of Lateral Compositionally Modulated InAs/GaSb Superlattices, J.C. Wickett, **D.W. Stokes**, J.H. Li, S.L. Ammu and S.C. Moss, Materials Research Society Symposium T, Boston, MA (December 2004).
28.  $\lambda = 3.3 \mu\text{m}$  Broadened Waveguide ‘W’ Quantum Well Diode Laser Operating at Room Temperature, L.J. Olafsen, H. Lee, W.W. Bewley, R.J. Menna, I. Vurgaftman, R.U. Martinelli, **D.W. Stokes**, D.Z. Garbuzov, C.L. Felix, M. Maiorov, J.R. Meyer, J.C. Connolly, A.R. Sugg, and G.H. Olsen, March Meeting of American Physical Society, Minneapolis, MN (March 2000).
29. Optical and Structural Properties of InAs/GaSb Nanostructures, **D.W. Stokes**, J.H. Li, R.L. Forrest, S.L. Ammu, J.C. Lenzi, S.C. Moss. B. Nosh, E.H. Aifer, B. Bennett and L.J. Whitman, Materials Research Society Symposium T, Boston, MA (December 2003).
30. IR absorption analysis of InAs/GaSb nanostructures, J.C. Wickett, **D.W. Stokes**, J.H. Li, R.L. Forrest, S.L. Ammu, S.C. Moss, B.Z. Nosh, B.R. Bennett and L.J. Whitman, Texas Section of the American Physical Society, Waco, TX (**October 2004**).
31. Structural Characterization of A Group III-V Semiconductor superlattice, Daniel A. Brenes, Rebecca L. Forrest, Jerry, R. Meyer, and **Donna W. Stokes**, 107<sup>th</sup> Annual Meeting of the Texas Academy of Science, Schreiner University, Kerrville, TX (**March 2004**).
32. X-ray Diffraction Analysis of Lateral Composition Modulation in InAs/GaSb Superlattices Intended for Infrared Detector Applications, **D.W. Stokes**, R.L. Forrest, J.H. Li, S.C. Moss. B. Nosh, B. Bennett, L.J. Whitman and M. Goldberg, 5<sup>th</sup> International Conference on Mid-Infrared Optoelectronic Materials and Devices, Annapolis, MD (**June 2003**).

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## CONTRIBUTED PRESENTATIONS (continued)

33. High efficiency optically Pumped Type-II W-Optic Lasers Emitting in the Mid-IR, W. W. Bewley, C.L. Felix, I. Vurgaftman, **D.W. Stokes**, J.R. Meyer, M.J. Yang, H. Lee, and R.U. Martinelli, March Meeting of American Physical Society, Minneapolis, MN March 2000.
34. High Temperature W Diode Lasers Emitting at 3.2  $\mu\text{m}$ , L. J. Olafsen, W. W. Bewley, I. Vurgaftman, C.L. Felix, E.H. Aifer, **D.W. Stokes**, J.R. Meyer, H. Lee, R.J. Menna, R.U. Martinelli, D.Z. Garbuzov, M. Maiorov, J.C. Connolly, A.R. Sugg, and G.H. Olsen, Materials Research Society Symposium, Boston, MA, December 1999.
35. Broadened-Waveguide W Quantum-Well Diode Lasers Operating at  $\lambda = 3.2 \mu\text{m}$ , H. Lee, R.J. Menna, R.U. Martinelli, D.Z. Garbuzov, J.C. Connolly, L.J. Olafsen, W.W. Bewley, I. Vurgaftman, C.L. Felix, E.H. Aifer, **D.W. Stokes**, J.R. Meyer, M. Maiorov, A.R. Sugg, and G.H. Olsen, IEEE-LEOS Annual Meeting, San Francisco, CA, November 1999.
36. Effect of Strained Superlattice Layers on Formation of Lateral Composition Modulation (LCM) and on Optical Response in InAs/GaSb Superlattices, J.C. Wickett, **D.W. Stokes** and J.H. Li, Sigma Xi Research Day, University of Houston, Houston, TX (March 2006).
37. Physics Education: Math Deficiencies of Students Entering an Introductory Physics Course and Its Effects on Their Performance, C. D. Voight, D.W. Stokes, L.T. Wood, University of Houston – Alliance for Graduate Education and the Professorate Houston, TX (Summer 2005).
38. Absorption Analysis of Lateral Compositionally Modulated InAs/GaSb Superlattices, J.C. Wickett, **D.W. Stokes**, J.H. Li, S.L. Ammu and S.C. Moss, Materials Research Society Symposium T, Boston, MA (**December 2004**).
39. Epitaxial Growth of  $\beta\text{-Fe}(\text{Si}_{1-x}\text{Ge}_x)_2$  Towards a Tunable Silicon Based Electro-Optic Material, R.J. Cottier, K. Hossain, B.P. Gorman, **D.W. Stokes**, F.Z. Amir, A.G. Birdwell, O.W. Holland, A. Neogi, C.L. Littler and T.D. Golding, North American Molecular Beam Epitaxy Conference, Banff, Alberta, Canada **June 2004**.
40. Optical Pumping Injection Cavity (OPIC) for High-Efficiency Mid-IR W Lasers, C.L. Felix, W.W. Bewley, I. Vurgaftman, L.J. Olafsen, **D.W. Stokes**, J.R. Meyer, M.J. Yang, H. Lee, and R.U. Martinelli, IEEE-LEOS Annual Meeting, , San Francisco, CA, November, 1999.
41. Pulsed and CW Operation of Type-II W Lasers Emitting from 5.0 to 7.3  $\mu\text{m}$ , **D.W. Stokes**, L.J. Olafsen, W.W. Bewley, I. Vurgaftman, C.L. Felix, E.H. Aifer, M.J. Yang, and J.R. Meyer, Optical Society of America Annual Meeting, Santa Clara, CA, September 1999.

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## CONTRIBUTED PRESENTATIONS (continued)

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42. Antimonide Interband and Intersubband Mid-IR and Terahertz Lasers, I. Vurgaftman, C. L. Felix, W.W. Bewley, E.H. Aifer, L.J. Olafsen, **D.W. Stokes**, J.R. Meyer, M.J. Yang, and H. Lee, 5<sup>th</sup> Int. Conf. Intersubband Transitions in Quantum Wells, Bad Ischl, Austria, September 1999.
43. Room-Temperature W Mid-IR Quantum Well Lasers, L.J. Olafsen, W.W. Bewley, I. Vurgaftman, C.L. Felix, E.H. Aifer, **D.W. Stokes**, J.R. Meyer, H. Lee, R.J. Menna, R.U. Martinelli, D.Z. Garbuzov, J.C. Connolly, M. Maiorov, A.R. Sugg, and G.H. Olsen, 3<sup>rd</sup> Int. Conf. Mid-Infrared Optoelectronics Materials and Devices Aachen, Germany, September 1999.
44. Optically-Pumped W and W-OPIC Mid-IR Lasers, W.W. Bewley, C.L. Felix, I. Vurgaftman, L.J. Olafsen, **D.W. Stokes**, E.H. Aifer, J.R. Meyer, M.J. Yang, H. Lee, R.U. Martinelli, and A.R. Sugg, 3<sup>rd</sup> Int. Conf. Mid-Infrared Optoelectronics Materials and Devices, Aachen, Germany, September 1999.
45. High-Temperature Continuous Wave Operation of Optically-Pumped W Lasers with  $\lambda = 3\text{--}7.1\ \mu\text{m}$ , W.W. Bewley, I. Vurgaftman, C.L. Felix, **D.W. Stokes**, L.J. Olafsen, E.A. Aifer,
46. Optical Pumping Injection Cavity (OPIC) for High-Efficiency Mid-IR W Lasers, C.L. Felix, W.W. Bewley, I. Vurgaftman, L.J. Olafsen, **D.W. Stokes**, J.R. Meyer, M.J. Yang, H. Lee, and R.U. Martinelli, IEEE-LEOS Annual Meeting, San Francisco, CA, November, 1999.
47. High-Temperature cw W Lasers Emitting at  $\lambda = 3\text{--}7.1\ \mu\text{m}$ , J.R. Meyer, W.W. Bewley, E.A. Aifer, C.L. Felix, **D.W. Stokes**, L.J. Olafsen, I. Vurgaftman, M.J. Yang, B.V. Shanabrook, H. Lee, R.U. Martinelli, and J.C. Connolly, 12<sup>th</sup> Annual Diode Laser Technology Review, Fort Walton Beach, FL, May 1999.
48. Long Wavelength High Temperature CW Operation of Optically-Pumped Type-II W Mid-IR Lasers, W.W. Bewley, E.H. Aifer, C.L. Felix, I. Vurgaftman, **D.W. Stokes**, L.J. Olafsen, J.R. Meyer, M.J. Yang, B.R. Bennett, B.V. Shanabrook, H. Lee, R.U. Martinelli, and A.R. Sugg, 1999 Centennial Meeting of the American Physical Society, Atlanta, GA, March 1999.
49.  $\text{Al}_{1-x}\text{In}_x\text{As}_{1-y}\text{Sb}_y/\text{GaSb}$  Effective Mass Superlattices Grown by MBE, **D. Washington-Stokes**, T. P. Hogan, P. C. Chow and T. D. Golding, U. Kirschbaum and C. L. Littler, 10<sup>th</sup> International Conference on Molecular Beam Epitaxy, Cannes, France, June 1998.
50. Kinetic Confinement of Charge Carriers in  $\text{Al}_{1-x}\text{In}_x\text{As}_{1-y}\text{Sb}_y/\text{GaSb}$  Effective Mass Superlattices grown by MBE, **D. R. Washington**, T. Hogan, P. Chow, T. D. Golding, C. L. Littler and U. Kirschbaum, March Meeting of the American Physical Society, Los Angeles, CA, March 1998.
51.  $\text{Al}_{1-x}\text{In}_x\text{As}_{1-y}\text{Sb}_y/\text{GaSb}$  Heterojunctions and Multilayers Grown by Molecular Beam Epitaxy for Effective Mass Superlattices. **D. Washington**, T. Hogan, P. Chow, T. Golding, C. Littler



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## CONTRIBUTED PRESENTATIONS (continued)

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and U. Kirschbaum, 16<sup>th</sup> North American Molecular Beam Epitaxy Conference, Ann Arbor, MI, October 1997.

52. Molecular Beam Epitaxy Growth of  $Al_{1-x}In_xAs_{1-y}Sb_y$  Epilayers on GaSb (100) Substrates, **D. Washington- Stokes**, T.P. Hogan, P.C. Chow, T.D. Golding, Materials Research Society, Boston, MA, March 1997.

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## COLLABORATORS (CURRENT)

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2000-Present: Cheryl Craig (Texas A&M), Alexei Masnev (MIT), Keith Nelson (MIT), Doug Shin (MIT), Jateen Gandhi, (UH) Rebecca Forrest (UH) Paige Evans (UH), Simon Bott (UH), Cathy Horn (UH), Laveria Hutchison (UH), Monique Ogletree (UH) Andrea Burrige (HCC), Li, J.H. (Rice), Meyer, J. (NRL), Bennett, B. (NRL), Whitman, L. (NRL) and Szmulowicz, F. (Univ. of Dayton Research Instit.), Huang, H (Wright Patterson Air Force Research Labs), Storr, K. (Prairie View A&M), Neogi, A. (UNT).

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## GRADUATE and POST DOCTORAL ADVISING

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Research Tech, Gayle Curtis, Department of Education at the University of Houston (2017 – Present)  
Postdoctoral Associate, Xiao Han, Department of Education at the University of Houston (2015 – 2017)

Postdoctoral Associate, Jateen Gandhi, Currently he is a lecturer in Department of Physics at the University of Houston (2014 – 2015)

PhD Graduate: Julia Lenzi Wickett (Graduated Spring 2010)

Dissertation Topic: Structural and Optical Analysis of InAs/GaSb Nanostructures

MS Graduate: Carol Voight (Graduated Spring 2010)

Thesis topic: Physics Education: Math Deficiencies of Students Entering a General Physics Course and Their Affect on Student Performance. Mrs. Voight is a recipient of the UH-AGEP Summer Scholarship for 2008, 2007 and 2006

Postdoctoral Associate, Rebecca Forrest, Currently she is an Instructional Associate Professor in the Department of Physics at the University of Houston. (2001 – 2006)

Postdoctoral Associate, Jian Hua Li, Currently Research Scientist at Rice University (2001 – 2006)

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## UNDERGRADUATE RESEARCH ADVISING

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Undergraduate Student: James Kelley- Senior Physics Major

Undergraduate Student: Travis Hernandez (Currently enrolled in PhD program at San Diego State University)

Undergraduate Student: Gael Nguyen (Currently enrolled in PhD program University of California-Irvine)

Undergraduate Student: Carol Voight (Adjunct Math and Physics Professor at San Jacinto College Central, Houston, TX)

Undergraduate Student: Mansi Bargharva (Intel, Portland, Oregon)