CURRICULUM VITAE

ANTHONY M. JOHNSON

EDUCATION

Ph.D. 1981 City College of New York/Bell Labs (Murray Hill, NJ), **Physics**

Degree granted by the City University of NY Graduate Center [PhD thesis research conducted at AT&T Bell Labs in Murray Hill, NJ, with support from the Bell Labs Cooperative Research Fellowship

Program (CRFP) for Minorities]

B.S. 1975 Polytechnic Institute of New York, **Physics**

Magna Cum Laude

Experience in Higher Education

9/1/03 to present: University of Maryland, Baltimore County (UMBC), Baltimore, MD

Director of the Center for Advanced Studies in Photonics Research

(CASPR)

Professor of Physics

Professor of Computer Science & Electrical Engineering (CSEE) 2004 Wilson H. Elkins Professorship of the University System of

Maryland

1/03 to 9/1/03: New Jersey Institute of Technology (**NJIT**), Newark, NJ

Foundation Professor of Optics & Photonics and Distinguished Professor

of Physics

1/3/95 to 1/03: New Jersey Institute of Technology (NJIT), Newark, NJ

Chairperson & Distinguished Professor of Applied Physics & Professor of

Electrical and Computer Engineering

Experience in Other than Higher Education

8/81 to 1/1/95: AT&T Bell Laboratories, Holmdel, NJ; Member of Technical Staff in the

Quantum Physics and Electronics Research Dept. -- promoted to Distinguished Member of Technical Staff in 1988; joined the Photonic

Circuits Research Dept. 9/90

Honors Received

2021 Election to the American Academy of Arts and Sciences

https://news.umbc.edu/umbcs-anthony-johnson-pulse-laser-innovator-elected-

a-member-of-the-american-academy-of-arts-and-sciences/

2021 Stephen D. Fantone Distinguished Service Award of the Optical Society (OSA)

https://news.umbc.edu/umbcs-anthony-johnson-honored-for-decades-of-resear

ch-mentorship-service/

https://www.osa.org/en-us/2021fantoneawardwinner/

2020 Life Fellow, Institute of Electrical and Electronics Engineers (IEEE)

2018-Present Distinguished Traveling Lecturer, APS (American Physical Society)

Division of Laser Science (DLS)

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2013	Invited to join the HistoryMakers/ScienceMakers
	http://www.thehistorymakers.com/biography/anthony-johnson
2013	Joseph S. Tyler Jr. Award, National Technical Association, Baltimore Chapter
2011-2013	Sigma Xi Distinguished Lecturer
2011	Honorary Doctorate – Doctor of Science, Honoris Causa at the Commencement of
	the City College of the City University of NY (CCNY)
2010	Named a "Laser Pioneer" for the 50 th Anniversary of the Laser and LaserFest,
	http://www.laserfest.org/lasers/pioneers/johnson.cfm
2002	Elected President of the Optical Society of America (OSA)
2000	Fellow, Institute of Electrical and Electronics Engineers (IEEE)
1997	Promoted to Distinguished Professor of Physics at NJIT
1996	Edward A. Bouchet Award of the American Physical Society (APS)
1996	Fellow, American Association for the Advancement of Science (AAAS)
1995	Fellow, American Physical Society (APS)
1994	Black Engineer of the Year Awards Conference – Special Recognition Award
1993	Fellow, African Scientific Institute (ASI)
1993	Distinguished Alumnus Award from Polytechnic University
1992	Charter Fellow, National Society of Black Physicists (NSBP)
1991	Fellow, Optical Society of America (OSA)
1989	AT&T Bell Laboratories Research Area Affirmative Action Award
1988	AT&T Bell Laboratories Distinguished Technical Staff Award for Sustained
	Achievement (Distinguished Member of Technical Staff)
1975	AT&T Bell Laboratories Cooperative Research Fellowship to pursue a Ph.D. in
	Physics
1975	Sigma Xi Undergraduate Research Award for Bachelor's Thesis
D 1.0	LIMBC
	upport – UMBC
2019-2022	\$480,000, "Deposition and Nonlinear Optical Properties of Transition Metal
	Nitride/Oxide Thin Films" NSF Division of Materials Research (DMR),
2010 2021	Theodosia Gougousi (PI) and A. M. Johnson (Co-PI), NSF-DMR 1905305
2018-2021	\$498,372, NSF "Excellence in Research: Investigation of Enhancer-Free
	Photogenerated Singlet Oxygen," collaboration with Delaware State
2006 2016	University, NSF Proposal # 1831332, UMBC Subaward \$215,588, Co-PI
2006-2016	\$21,922,204, NSF Engineering Research Center (ERC), Mid-Infrared
	Technologies for Health and the Environment (MIRTHE), EEC-0540832, Co-
2000 2011	PI/Deputy Director, UMBC portion \$3,833,029
2009-2011	\$1,000,000, NIST, "Ultrafast Dynamics for Next Generation Nanotechnology," PI
2009-2011	\$131,717, NSF EAGER, American Physical Society, "Doubling Minority PhDs in
2000 2010	Physics," Co-PI/Steering Committee Member
2008-2010	\$99,100, Airforce Research Laboratory/IRFlex Corporation SBIR Phase II, "Mid-
2007 2000	IR Fiber Lasers, Co-PI
2007-2008	\$15,602, Airforce Research Laboratory/IRFlex Corporation, "Novel Fiber Lasers
	\$15,602, Airforce Research Laboratory/IRFlex Corporation, "Novel Fiber Lasers for Direct Lasing in the Mid-IR," Co-PI
2007-2008 2006-2009	\$15,602, Airforce Research Laboratory/IRFlex Corporation, "Novel Fiber Lasers for Direct Lasing in the Mid-IR," Co-PI \$268,000, NSF Major Research Instrumentation (MRI) Grant, ECS-0619548,
	\$15,602, Airforce Research Laboratory/IRFlex Corporation, "Novel Fiber Lasers for Direct Lasing in the Mid-IR," Co-PI

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\$1,750,000, NASA, "Application of Quantum Entangled Photons," PI

2003-2004	\$1,869,000, NASA, "CASPR Ultrafast Optics & Optoelectronics Laboratory," PI
2003-2004	\$80,000, University of Maryland System, Wilson H. Elkins Professorship
D 1.0	NITT
Research Si	upport – NJIT
2003-2007	\$1,700,000, NSF Informal Science Education Grant, "Hands-On Optics: Making
	an Impact with Light," ESI-0307949, PI with Professional Society Partners OSA,
	SPIE and NOAO:
https	://www.osa-opn.org/opn/media/Images/PDFs/5394_10737_53450.pdf?ext=.pdf
	[This grant moved with me to UMBC]
1998-2000	\$54,000, NSF Instrumentation and Laboratory Improvement (ILI) Program,
	"Applied Optics Laboratories in an Undergraduate Optical Science and
	Engineering Program," DUE-9850515, PI
1998	\$869,359, New Jersey Commission on Science and Technology, R&D Excellence
	Award, "Center for Ultrafast Laser Applications," Co-PI
1996-1997	\$202,556, NSF, ECS-9601937, "Acquisition of Instrumentation for Research and
	Development of Bonded Ultra-Thin Silicon Wafers," Co-PI
1996-1998	\$400,000, NSF Combined Research-Curriculum Development (CRCD) Program,
	"Multidisciplinary Optical Science & Engineering Program," EEC-9527491, PI

Ph.D. Students – UMBC

2005-2006

Paul Burkins, 12/2017, Physics, Chair Hong Cai, 12/2014, Physics, Chair Sheng Liu, 10/2011, Physics, Chair Aboubakar Traore, 10/2011, Physics, Chair Raymond Edziah, 2/2010, Physics, Chair Robinson Kuis, 12/2009, Physics, Chair

Ph.D. Students – NJIT

Ferdinand Oguama, 8/2003, Physics, Chair Elaine Lalanne, 5/2003, Physics, Chair Hernando Garcia, 5/2000, Physics, Chair

Master's Students – UMBC

Jared Dixon, 12/2014, CSEE, Chair Sharisse Felton, 5/2009, CSEE, Chair Akil Word-Daniels, 5/2009, CSEE, Chair Shelly Watts, 7/2009, Physics, Chair Francis Carter, 5/2007, Physics, Chair

<u>Undergraduate Students</u>

Elangeni Yabba (University of the Virgin Islands), UMBC Summer Biomedical Training Program, Howard Hughes Medical Institute, AND

Victor Torres, Jr. (University of Maryland College Park), NSF MIRTHE REU, Joint research project during <u>Summer 2015</u>, "Time-Resolved Pump-Probe Reflectivity of InGaAs,"

- each student presented a poster at UMBC and Princeton University, respectively, Advisor to both students
- Prosper Adangwa (UMBC, CSEE), NSF MIRTHE REU, <u>Summer 2014</u>, "Pump-Probe Reflectivity Study of Excited State Dynamics in Semiconductors for use in Quantum Cascade Devices," poster presented at Princeton University, Advisor
- Christian Sias (UMBC, Physics), NSF MIRTHE REU, <u>Summer 2013</u>, "Examining the Photoluminescence and Band Gap Energy of Gallium Arsenide (GaAs)," presented poster at Princeton University, Advisor
- Victor Torres, Jr. (Atholton High School, Columbia, MD), NSF MIRTHE REU, <u>Summer 2013</u>, "Temperature Dependent Photoluminescence of GaAs," presented poster at Princeton University, Advisor
- Chantelle Laguerre (Penn State University), NSF MIRTHE REU, <u>Summer 2012</u>, "IR Photoluminescence Measurements InGaAs/InAlAs," presented poster at UMBC
- Tianna-Kaye Woodstock (Morgan State University), NSF MIRTHE REU, <u>Summer 2012</u>, "Measuring the Pulsewidth of the Nd:YVO₄ Laser at 1.06μm," presented poster at UMBC, Advisor
- Muhed Rana (UMBC, Physics), NSF MIRTHE REU, <u>Summer 2012</u>, "Construction and Calibration of Photoluminescence Experimental Setup Using n-doped InP," presented poster at UMBC, Advisor
- Nathan Mendelsohn (University of Maryland College Park) and Tianna-Kaye Woodstock (Morgan State University), NSF MIRTHE REU, <u>Summer 2011</u>, "Time-Resolved Reflectivity Measurements in InAs/GaSb," joint poster presented at Princeton University, Advisor to both students
- Corina Spânu (University of Virginia) and Chantelle Laguerre (Kenwood High School, Baltimore, MD), NSF MIRTHE REU, <u>Summer 2011</u>, "Near and Mid-IR Photoluminescence Measurement of InGaAsP and InAs/GaSb," joint poster presented at Princeton University, Advisor to both students
- Chantelle Laguerre (Baltimore Polytechnic Institute, Baltimore, MD), NSF MIRTHE REU, Summer 2010, "Mid-IR Photoluminescence Measurements of Fe:CdMnTe Crystals," joint poster presented at Rice University with Shelly Watts (UMBC MS'2009, Physics) and NSF MIRTHE RET (Friends School of Baltimore), Advisor to both students
- Benjamin Ecker (UMBC, Physics), NSF MIRTHE REU, <u>Summer 2008</u>, "Time-Resolved Reflectivity Measurements to Characterize Novel Semiconductor Materials," presented at Johns Hopkins University, Advisor

PUBLICATIONS, PRESENTATIONS, AND CREATIVE ACHIEVEMENTS <u>Peer-Reviewed Publications</u>

- R. Kuis, T. Gougousi, I. Basaldua, P. Burkins, J. Kropp, and A. M. Johnson, "Engineering of Large
- Third-Order Nonlinearities in Atomic Layer Deposition Grown Nitrogen-Enriched TiO₂," ACS Photonics, 6, 2966-2973 (2019).
- D. Kingsley, R. Kuis, R. Perez, I. Basaldua, P. Burkins, A. Marcano, and A. Johnson, "Oxygen-dependent laser inactivation of murine norovirus using visible light lasers," Virology Journal *15*, 117-122 (2018)

- P. Burkins, R. Kuis, I. Basaldua, A. M. Johnson, S. R. Swaminathan, D. Zhang, and S. Trivedi, "Thermally managed Z-scan methods investigation of the size-dependent nonlinearity of graphene oxide in various solvents," J. Opt. Soc. Am. *B33*, 2395 (2016)
- R. G. Tull, D. L. Tull, S. S. Hester and A. M. Johnson, "Dark Matters: Metaphorical Black Holes that Affect Underrepresentation in Engineering," American Society for Engineering Education (ASEE). Paper (ID #17239) Annual Conference and Exposition, New Orleans, LA, June 2016
- A. Traore, E. Lalanne, and A. M. Johnson, "Determination of the nonlinear refractive index of multimode silica fiber with a dual-line ultrashort pulse laser source by using the induced grating autocorrelation technique," Opt. Express 23, 17127 (2015)
- H. Cai, S. Liu, E. Lalanne, and A. M. Johnson, "Investigation of giant Kerr nonlinearity in quantum cascade lasers using mid-infrared femtosecond pulses," Appl. Phys. Lett. *106*, 051102 (2015)
- H. Cai, S. Liu, E. Lalanne, D. Guo, X. Chen, X. Wang, F-S. Choa, and A. M. Johnson, "Femtosecond measurements of near-infrared pulse induced mid-infrared transmission modulation of quantum cascade lasers," Appl. Phys. Lett. *104*, 211101 (2014)
- D. Guo, H. Cai, M. A. Talukder, X. Chen, A. M. Johnson, J. B. Khurgin and F-S. Choa, "Near-infrared induced optical quenching effects on mid-infrared quantum cascade lasers," Appl. Phys. Lett. *104*, 251102 (2014)
- N. Manuchehrabadi, R. Toughiri, C. Bieberich, H. Cai, A. Attaluri, R. Edziah, E. Lalanne, A. M. Johnson, R. Ma and L. Zhu, "Treatment efficacy of laser photothermal therapy using gold nanorods," Int. J. Biomedical Engineering and Technology, *12* (2), 157 (2013)
- A. M. Johnson, "Combatting Stereotype Threat," Optics & Photonics News 24, 16 (May 2013)
- N. Manuchehrabadi, A. Attaluri, H. Cai, R. Edziah, E. Lalanne, C. Bieberich, R. Ma, A. M. Johnson, L. Zhu, "MicroCT imaging and in vivo temperature elevations in implanted prostatic tumors in laser photothermal therapy using gold nanorods," J. of Nanotechnology in Engineering and Medicine *3*, 021003 (2012)
- A. M. Johnson, "Minority Women Scientists: At the Culture-Gender Crossroads," *Optics & Photonics News 23*, 15 (March 2012)
- S. Liu, E. Lalanne, P. Q. Liu, X. Wang, C. F. Gmachl and A. M. Johnson, "Femtosecond Carrier Dynamics and Nonlinear Effects in Quantum Cascade Lasers," IEEE JSTQE (Invited Paper) 18, 92 (2012)
- S. Liu, H. Cai, E. Lalanne, P. Q. Liu, X. Wang, C. Gmachl, A. M. Johnson "Second harmonic generation in quantum cascade lasers pumped by femtosecond mid-infrared pulses", Appl. Phys. Lett. *99*, 122104 (2011)

- R. Edziah, E. Lalanne, V. Torres, A. M. Johnson, and S. Trivedi, "Z-scan Measurements Using Ultrashort High-Repetition-Rate Lasers: How to Recognize the Parasitic Effects of Nonlinear Behavior of Fused –Silica Damage Sites," J. Opt. Soc. Am. *B28*, 1385 (2011)
- R. Kuis, A. M. Johnson and S. Trivedi, "Measurement of the Effective Nonlinear and Dispersion Coefficients in Optical Fibers by the Induced Grating Autocorrelation Technique," Opt. Express *19*, 1755 (2011)
- A. M. Johnson, S. M. Pompea, E. G. Arthurs, C. E. Walker, and R. T. Sparks, "Hands-on optics: an informal science education initiative," in Novel Optical Systems Design and Optimization X, edited by R. J. Koshel, G. G. Gregory, Proc. of SPIE *Vol.* 6668, 66680D (2007).
- Member of the Committee on AMO 2010, Board on Physics and Astronomy, Division on Engineering and Physical Sciences, National Research Council of the National Academies, "Controlling the Quantum World The Science of Atoms, Molecules, and Photons," The National Academies Press, Washington DC, Copyright 2007
- F. A. Oguama, H. Garcia and A. M. Johnson, "Technique for Simultaneous Measurement of the Raman Coefficient and Nonlinear Refractive Index of Optical Fibers Theory and Experiment," J. Opt. Soc. Am. *B* 22, 426 (2005)
- F. A. Oguama, A. M. Johnson and W. A. Reed, "Measurement of the Nonlinear Coefficient of Telecommunication Fibers as a Function of Er, Al and Ge Doping Profiles Using the Photorefractive Beam-Coupling Technique," J. Opt. Soc. Am *B* 22, 1600 (2005).
- H. Garcia, A. M. Johnson, F. A. Oguama and S. Trivedi, "Pump Induced Nonlinear Refractive Index Change in Erbium and Ytterbium Doped Fibers Theory and Experiment," Opt. Lett. *30*, 1261 (2005)
- F. A. Oguama, A. Tchouassi, A. M. Johnson and H. Garcia, "Numerical Modeling of the Induced Grating Autocorrelation for Studying Optical Fiber Nonlinearities in the Picosecond Regime," Appl. Phys. Lett. *86*, 091101 (2005)
- H. Han, S. Vijayalakshmi, A. Lan, Z. Iqbal, H. Grebel, E. Lalanne and A. M. Johnson, "Linear and Nonlinear Optical Properties of Single-Wall Carbon Nanotubes within an Ordered Array of Nanosize Silica Spheres," Appl. Phys. Lett. *82*, 1458 (2003)
- H. Garcia, A. M. Johnson, F. A. Oguama and S. Trivedi, "A New Approach to the Measurement of the Nonlinear Refractive Index of Short (< 25 m) Lengths of Silica and Erbium-doped Fibers," Opt. Lett. 28, 1796 (2003)
- A. J. Campillo and A. M. Johnson, "The Impact of Optics Letters on Science and Technology," *Optics & Photonics News* (Invited Paper), *13(7)*, pp. 34-42 (July 2002) in celebration of the 25th Anniversary of *Optics Letters*

- A. M. Johnson and C. B. Hitz, "Career Opportunities in Optics," *Physics Today*, *53(5)*, p. 25-29 (May 2000)
- http://physicstoday.scitation.org/doi/pdf/10.1063/1.883098
- H. Garcia, A. M. Johnson, and S. Trivedi, "Photorefractive Beam-Coupling Measurement of the Nonlinear Refractive Index of Semiconductor Films," Phys. Stat. Sol. *B* 220, 47 (2000)
- R. Barat, J. Federici, A. M. Johnson, H. Grebel, and T. Chang, "Optical Science and Engineering Curriculum at NJIT," Journal of Engineering Education 87, 575 (1998)
- N. M. Froberg, G. Raybon, A. M. Johnson, Y. K. Chen, T. Tanbun-Ek, R. A. Logan, A. Tate, A. M. Sargent, K. Wecht, and P. F. Sciortino, Jr., "Pulse Generation by Harmonic Modulation of an Integrated DBR Laser-Modulator," Electron. Lett. *30*, 650 (1994)
- A. M. Levine, E. Özizmir, R. Trebino, C. C. Hayden, A. M. Johnson, and K. L. Tokuda, "Induced-Grating Autocorrelation of Ultrashort Pulses in a Slowly Responding Medium," J. Opt. Soc. Am. *B* 11, 1609 (1994)
- N. M. Froberg, G. Raybon, U. Koren, B. I. Miller, M. G. Young, M. Chien, G. T. Harvey, A. Gnauck, and A. M. Johnson, "Generation of a 2.5 Gbit/s Soliton Data Stream with an Integrated Laser-Modulator Transmitter," Electron. Lett. *30*, 1880 (1994)
- G. Raybon, N. M. Froberg, U. Koren, B. I. Miller, M. G. Young, M. Chien, A. M. Johnson, P. B. Hansen, C. A. Burrus, J. J. Veselka, and A. H. Gnauck, "A 2.5 Gbit/s Return-to-Zero Integrated DBR Laser/Modulator Transmitter," IEEE Photon. Technol. Lett. 6, 1330 (1994)
- R. D. Feldman, T. D. Harris, J. E. Zucker, D. Lee, R. F. Austin, and A. M. Johnson, "Low Threshold, Room Temperature Pulsed and Quasi-Continuous Lasing in Optically Pumped CdZnTe/ZnTe Quantum Wells," J. Electron. Mater. *22*, 479 (1993)
- R. D. Feldman, D. Lee, A. Partovi, R. P. Stanley, A. M. Johnson, J. E. Zucker, A. M. Glass, and J. Hegarty, "Growth, Optical and Optoelectronic Properties of CdZnTe/ZnTe Multiple Quantum Wells," Critical Reviews in Solid State and Materials Sciences *17*, 477 (1992)
- P. C. Becker, D. Lee, A. M. Johnson, A. G. Prosser, R. D. Feldman, R. F. Austin, and R. E. Behringer, "Femtosecond Dynamics of Resonantly Excited Room Temperature Excitons in II-VI CdZnTe/ZnTe Quantum Wells," Phys. Rev. Lett. *68*, 1876 (1992)
- D. Lee, A. M. Johnson, J. E. Zucker, C. A. Burrus, R. D. Feldman, and R. F. Austin, "High Temperature Quasi-Continuous Operation of II-VI Optically Pumped CdZnTe/ZnTe Multiple Quantum Well Lasers at 620 nm," IEEE Photonics Tech. Lett. *4*, 949 (1992)
- P. C. Becker, D. Lee, M. Barros, A. M. Johnson, A. G. Prosser, R. D. Feldman, R. F. Austin, and R. E. Behringer, "Femtosecond Dynamic Exciton Bleaching in Room Temperature II-VI Quantum Wells," IEEE J. Quantum Electron. *QE-28*, 2535 (1992)

- D. Lee, A. M. Johnson, J. E. Zucker, R. D. Feldman, and R. F. Austin, "Room Temperature Excitonic Absorption in CdZnTe/ZnTe Quantum Wells: Contributions to Exciton Linewidth," J. Appl. Phys. *69*, 6722 (1991)
- A. Partovi, A. M. Glass, D. H. Olson, R. D. Feldman, R. F. Austin, D. Lee, A. M. Johnson, and D. A. B. Miller, "Electroabsorption in II-VI Multiple Quantum Wells," Appl. Phys. Lett. 58, 334 (1991)
- D. Lee, J. E. Zucker, A. M. Johnson, R. D. Feldman, and R. F. Austin, "Raman Scattering Resonant with Excitons in CdZnTe/ZnTe Multiple Quantum Wells," Appl. Phys. Lett. *59*, 75 (1991)
- D. Lee, J. E. Zucker, M. D. Divino, R. F. Austin, R. D. Feldman, K. L. Jones, and A. M. Johnson, "Quantum Well Waveguide Intensity Modulator at Visible Wavelengths Using CdZnTe/ZnTe Quantum Wells," Appl. Phys. Lett. *59*, 1876 (1991)
- R. S. Miranda, H. W. K. Tom, A. M. Johnson, T. J. Bridges, and G. D. Aumiller, "Using Time-Resolved IR Reflection and Transmission as a Probe of Carrier Dynamics in Semi conductors," Opt. Lett. *16*, 1859 (1991)
- R. Trebino, C. C. Hayden, A. M. Johnson, W. M. Simpson, and A. M. Levine, "Chirp and Self-Phase Modulation in Induced-Grating Autocorrelation Measurements of Ultrashort Pulses," Opt. Lett. *15*, 1079 (1990)
- D. Lee, J. E. Zucker, A. M. Johnson, R. D. Feldman, and R. F. Austin, "Room Temperature Excitonic Saturation in CdZnTe/ZnTe Quantum Wells," Appl. Phys. Lett. *57*, 1132 (1990)
- J. Bokor, A. M. Johnson, W. M. Simpson, R. H. Storz, and P. R. Smith, "Coplanar Vacuum Photodiode for Measurement of Short-Wavelength Picosecond Pulses," in *OSA Proceed- ings on Picosecond Electronics and Optoelectronics*, *Vol. 4*, T. C. L. G. Sollner and D. M. Bloom, eds. (Optical Society of America, Washington, DC), p. 189 (1989)
- U. Keller, J. A. Valdmanis, M. C. Nuss, and A. M. Johnson, "53 ps Pulses at 1.32 Micrometers From a Harmonic Modelocked Nd:YAG Laser," IEEE J. Quantum Electron. *QE-24*, 427 (1988)
- R. D. Feldman, R. F. Austin, P. M. Bridenbaugh, A. M. Johnson, W. M. Simpson, B. A. Wilson, and C. E. Bonner, "Effects of Zn to Te Ratio on the Molecular Beam Epitaxial Growth of ZnTe on GaAs," J. Appl. Phys. *64*, 1191 (1988)
- J. Bokor, A. M. Johnson, W. M. Simpson, R. H. Storz, and P. R. Smith, "Coplanar Vacuum Photodiode for Measurement of Short-Wavelength Picosecond Pulses," Appl. Phys. Lett. *53*, 2599 (1988)
- A. M. Johnson, R. M. Lum, W. M. Simpson, and J. Klingert, "Picosecond OMVPE GaAs/SiO2 Photoconductive Devices and Applications in Materials Characterization," IEEE

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- A. M. Johnson and W. M. Simpson, "Optically Biased Tunable Femtosecond Dye Laser and Spectral Windowing of the Compressed Second Harmonic of Nd:YAG," IEEE J. Quantum Electron. *QE-22*, 133 (1986)
- J. Bokor, A. M. Johnson, R. H. Storz, and W. M. Simpson, "High-Speed Circuit Measurements Using Photoemission Sampling," Appl. Phys. Lett. 49, 226 (1986)
- R. H. Stolen and A. M. Johnson, "The Effect of Pulse Walkoff on Stimulated Raman Scattering in Fibers, "IEEE J. Quantum Electron. *QE-22*, 2154 (1986)
- J. Bokor, A. M. Johnson, R. H. Storz, and W. M. Simpson, "High-Speed Circuit Measurements Using Photoemission Sampling," *Ultrafast Phenomena V*, ed. by G. R. Fleming and A. E. Siegman (Springer-Verlag, Berlin), p. 123 (1986)
- A. M. Johnson, R. H. Stolen, and W. M. Simpson, "The Observation of Chirped Stimulated Raman Scattered Light in Fibers," Ultrafast Phenomena V, ed. by G. R. Fleming and A. E. Siegman (Springer-Verlag, Berlin), p. 160 (1986)
- A. M. Johnson and W. M. Simpson, "A Tunable Femtosecond Dye Laser Synchronously Pumped by the Compressed Second Harmonic of Nd:YAG," J. Opt. Soc. Am. *B* 2, 619 (1985)
- A. M. Johnson and W. M. Simpson, "Tunable Femtosecond Synchronously Modelocked Dye Laser Pumped by the Compressed Second Harmonic of Nd:YAG," SPIE *553*, 52 (1985)
- A. M. Johnson, D. W. Kisker, W. M. Simpson, and R. D. Feldman, "Picosecond Photoconductivity in Polycrystalline CdTe Films Prepared by UV Enhanced OMCVD," in *Picosecond Electronics and Optoelectronics*, G. Mourou, D. Bloom, and C. Lee, eds., (Springer-Verlag, New York), p. 188 (1985)
- W. J. Tomlinson, R. H. Stolen, and A. M. Johnson, "Optical Wave Breaking of Pulses in Nonlinear Optical Fibers," Opt. Lett. *10*, 457 (1985)
- A. M. Glass, P. F. Liao, A. M. Johnson, L. M. Humphrey, R. Lemons, D. H. Olson, and M. B. Stern, "Periodically Structured Amorphous Silicon Detectors with Improved Picosecond Responsivity," Appl. Phys. Lett. *44*, 77 (1984)
- T. Miyoshi, P. K. Tien, R. J. Martin, D. M. Tennant, A. M. Johnson, and P. M. Downey, "Infrared Photodetection in Proton-Bombarded InP," Appl. Phys. Lett. 44, 128 (1984)
- A. M. Johnson, A. M. Glass, D. H. Olson, W. M. Simpson, and J. P. Harbison, "High Quantum Efficiency Amorphous Silicon Photodetectors With Picosecond Response Times," Appl. Phys. Lett. *44*, 450 (1984)
- A. M. Johnson, R. H. Stolen, and W. M. Simpson, "80X Single-Stage Compression of Fre-

- quency Doubled Nd: YAG Laser Pulses," Appl. Phys. Lett. 44, 729 (1984)
- A. M. Glass, A. M. Johnson, D. H. Olson, W. M. Simpson, and A. A. Ballman, "Four-Wave Mixing in Semi-Insulating InP and GaAs Using The Photorefractive Effect," Appl. Phys. Lett. *44*, 948 (1984)
- A. M. Johnson, A. M. Glass, D. H. Olson, W. M. Simpson, and J. P. Harbison, "High Quantum Efficiency a-Si:H Picosecond Transit-Time Limited Schottky Barrier Photodetectors," J. Non-Cryst. Solids *66*, 381 (1984)
- A. M. Johnson, R. H. Stolen, and W. M. Simpson, "The Generation Of 0.41 Psec Pulses By The Single-Stage Compression Of Frequency Doubled Nd:YAG Laser Pulses," *Ultrafast Phenomena IV*, ed. by D. H. Auston and K. B. Eisenthal (Springer-Verlag, Berlin), p. 16 (1984)
- A. M. Johnson, R. H. Stolen, and W. M. Simpson, "Compression of Laser Pulses," *Optics News* 10(6), 42 (1984)
- L. F. Johnson, H. J. Guggenheim, D. Bahnck, and A. M. Johnson, "Phonon-Terminated Laser Emission from Ni²⁺ Ions in KMgF3," Opt. Lett. *8*, 371 (1983)
- A. M. Johnson and W. M. Simpson, "CW Modelocked Nd:YAG Pumped Subpicosecond Dye Lasers, "Opt. Lett. 8, 554 (1983)
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- A. M. Johnson, "Carrier Transport in Amorphous Silicon Utilizing Picosecond Photoconduc-

- tivity," Proceedings of the *VIII Annual Day of Scientific Lectures and Meeting of the National Society of Black Physicists*, ed. by H. B. White, Jr., Fermi National Accelerator Laboratory, Batavia, Illinois, p. 81 (1981)
- D. H. Auston, P. R. Smith, A. M. Johnson, W. M. Augustyniak, J. C. Bean, and D. B. Fraser, "Recent Advances in Picosecond Optoelectronics," *Picosecond Phenomena II*, ed. by R. Hochstrasser, W. Kaiser, and C. V. Shank (Springer-Verlag, Berlin), p. 71 (1980)
- A. M. Johnson, D. H. Auston, P. R. Smith, J. C. Bean, J. P. Harbison, and D. Kaplan, "Picosecond Photoconductivity in Amorphous Silicon," Picosecond Phenomena II, ed. by R. Hochstrasser, W. Kaiser, and C. V. Shank (Springer-Verlag, Berlin), p. 285 (1980)
- D. H. Auston, A. M. Johnson, P. R. Smith, and J. C. Bean, "Picosecond Optoelectronic Detection, Sampling, and Correlation Measurements in Amorphous Semiconductors," Appl. Phys. Lett. *37*, 371 (1980)
- A. M. Johnson and D. H. Auston, "Microwave Switching by Picosecond Photoconductivity," IEEE J. Quantum Electron. *QE-11*, 283 (1975)

Book Chapters

A. M. Johnson and C. V. Shank, "Pulse Compression in Single-Mode Fibers -- Picoseconds to Femtoseconds," in **The Supercontinuum Laser Source**, ed. by R. R. Alfano (Springer-Verlag, New York), Chapter 10, pp. 399-449 (1989)

A. M. Johnson, "Picosecond Optoelectronic Measurement of Carrier Transport in Amorphous Silicon," in Semiconductor Processes Probed By Ultrafast Laser Spectroscopy, ed. by R. R. Alfano (Academic Press, New York), Volume 2, Chapter 14, p. 3 (1984)

Patents – AT&T Bell Laboratories

Patent No. 4,933,542: "High Speed Photodetector Having Dual Transmission Line Geometry"

Patent No. 4,721,910: "High Speed Circuit Measurements Using Photoemission Sampling"

Patent No. 4,703,996: "Integrated Optical Device Having Integral Photodetector"

Patent No. 4,555,622: "Photodetector Having Semi-Insulating Material and a Contoured, Substantially Periodic Surface"

Plenary, Keynote, and Invited Presentations – UMBC

Invited: "Large Third-Order Nonlinearities in Atomic Layer Deposition Grown Nitrogen-Enriched TiO₂ Nanoscale Films," University of Maryland College Park, Dept. of Materials Science & Engineering Colloquium, Committee on Diversity, Equity and Inclusion, March 26, 2021.

Anthony M. Johnson12Curriculum Vitae 5/2021

Invited: "Large Third-Order Nonlinearities in Atomic Layer Deposition Grown Nitrogen-Enriched TiO₂ Nanoscale Films," 2020 IEEE Research and Applications of Photonics in Defense Conference (RAPID) Virtual Conference, 10-12 August 2020.

Invited: "A Career Encompassing Optical Physics, Diversity and Mentoring," American Physical Society (APS) March Meeting. Invited Session L06, entitled, "Hidden Figures and Diversity Champions in Physics," Los Angeles, CA, March 5-9, 2018.

Invited: "Report from the Bridge Program National Advisory Board (NAB)," APS Council of Representatives Meeting, Chicago, IL, November 10-11, 2017.

<u>Plenary</u>: "The 40+ Year Career of an African-American Physicist," National Society of Black Physicists Conference, Atlanta, GA, November 3-5, 2017.

<u>Plenary</u>: "Preparing Students for Private Sector Employment," APS-Graduate Education & Bridge Program Conference, College Park, MD, February 10-12, 2017

<u>Plenary</u>: "Reflections of an African-American Physicist," Conference for Undergraduate Underrepresented Minorities in Physics (CU²MiP), NIST/Univ. of Maryland College Park (UMCP), October 7-9, 2016.

Invited: "Ultrafast Optical Characterization of Novel Mid-Infrared Nanoscale Structures," Special Optics & Materials Physics Colloquium, Physics Department, New Jersey Institute of Technology (NJIT), September 30, 2016

Invited: "Ultrafast Optical Characterization of Novel Mid-Infrared Nanoscale Structures," NSF ERC MIRTHE Summer Symposium, Princeton University, June 15-16, 2015

Invited: "Ultrafast Optical Characterization of Novel Mid-Infrared Nanoscale Structures," National Society of Black Physicists (NSBP) Annual Meeting, Baltimore, MD, February 25-28, 2015

<u>Plenary</u>: "Role of APS in Promoting Diversity in Physics," American Physical Society (APS) Bridge Program Summer Meeting, American Center for Physics (ACP), College Park, MD, June 25-27, 2014

Invited: "Ultrafast Optical Characterization of Novel Mid-Infrared Nanoscale Materials and Devices," LAM 10 (African Laser Atomic Molecular & Optical Sciences Network) International Workshop on Optics, Photonics and Lasers in Science and Technology for Sustainable Development, Dakar, Senegal, West Africa, January 13-18, 2014

Invited: "Promoting Diversity in Physics – Personal Observations," APS/AAPT (American Association of Physics Teachers) Graduate Education in Physics Conference, ACP, College Park, MD, January 31-February 2, 2013

Anthony M. Johnson13Curriculum Vitae 5/2021

Invited: "Barriers to Improving Diversity at ERCs and Ways to Overcome Them," NSF Engineering Research Center (ERC) Annual Meeting, Bethesda, MD, November 13-16, 2012

Invited: "Ultrafast Optical Characterization of Novel Nanoscale Materials," Dean's Distinguished Lecture Series, Delaware State University, Departmental Lecture, November 8, 2012

Invited: "Photonics, Diversity and Mentoring – Over 30 Years of Experiences and Strategies of an African-American Physicist," Dean's Distinguished Lecture Series, Delaware State University, Public Lecture, November 8, 2012

Invited: "Femtosecond Mid-IR Spectroscopy of Quantum Cascade Lasers," Institute for Ultrafast Spectroscopy and Lasers 30th Anniversary Symposium, CCNY (City College of New York), October 9, 2012

<u>Tutorial</u>: "Ultrafast Characterization of Novel Mid-IR Nanoscale Materials," NSF ERC MIRTHE Summer Workshop held at UMBC, August 5-10, 2012

<u>Keynote</u>: "Femtosecond Mid-IR Spectroscopy of Quantum Cascade Lasers and Photonics, Diversity, Mentoring – A Nearly 40-Year Career of an African-American Physicist," National Capital Section (NCS) – OSA Chapter, IEEE, OSA, SPIE Student Poster Competition in Optics & Photonics, University of Maryland College Park, April 20, 2012

Invited: "Ultrafast Optical Characterization of Novel Nanoscale Materials," Sigma Xi Distinguished Lecture, Indiana University of Pennsylvania, April 12, 2012

Invited: "Photonics, Diversity and Mentoring – Over 3 Decades of Experiences and Strategies of an African-American Physicist," Stanford University Optical Society hosted the IONS (International OSA Network of Students) Conference NA-3, October 15, 2011

<u>Opening Session Keynote</u>: "The 50th Anniversary of the Laser and its Significant Impact Upon our Technological Society," High Impact Technology Exchange Conference (HI-TEC), Orlando, FL, July 26-29, 2010

<u>Invited After Dinner Talk</u>: "Undergraduate Research – The Start of a Career," AAPT/APS SPIN-UP (Strategic Programs for Innovations in Undergraduate Physics) Workshop for Physics Department Chairs, Rutgers University, New Brunswick, NJ, June 4-6, 2010

Invited: "Carrier Dynamics Investigation of a Quantum Cascade Laser Using Femtosecond Mid-IR Pump-Probe Spectroscopy," Laboratory for Physical Sciences (LPS), University of Maryland College Park, March 31, 2010

Invited: "Photonics, Diversity and Mentoring – 30 Years of Experiences and Strategies of an African-American Physicist," March Meeting of the APS, Portland, Oregon, March 16, 2010

Invited: "Successful Minority PhD Producing Programs – Bell Laboratories and the Meyerhoff Scholarship Program at UMBC," March Meeting of the APS, Pittsburgh, PA, March 16, 2009

<u>Invited Panel</u>: Elsa M. Garmire (1993 OSA President), Susan N. Houde-Walter (2005 OSA President), and A. M. Johnson (2002 OSA President), "Minorities and Women in OSA (MWOSA)," Luncheon and Panel Discussion at the Frontiers in Optics (FiO) Conference, Rochester, NY, October 22, 2008

Invited: "Photonics and Diversity: 30 Years of Experiences and Strategies of an African-American Physicist," the first NSF Distinguished Lecture jointly sponsored by the Directorate of Education and Human Resources (EHR) and the Directorate for Math and Physical Sciences (MPS), at the Foundation, Arlington, VA, April 30, 2008

Invited: "An African-American Physicist – Over 30 Years of Experiences, Strategies, and Personal Accounts," Army Research Laboratory (ARL) Black History Month Presentation, Adelphi Laboratory Center, Adelphi, MD, February 27, 2008
Invited: "Ultrafast Optical Characterization of Novel Materials," National Society of Black and Hispanic Physicists (NSBP/NSHP) Annual Meeting, Washington, DC, February 20-23, 2008

Invited: "The Meyerhoff Scholars Program at UMBC," AAPT Winter Meeting, Baltimore, MD, January 19-23, 2008

<u>Keynote</u>: "An African-American Physicist – Nearly 30 Years of Experiences, Strategies, and Personal Accounts," NSF ADVANCE: Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers – Rice University: Negotiating the Ideal Faculty Position, Houston, TX, October 14-16, 2007

Invited: "Materials for Mid-IR Quantum Cascade Lasers," Princeton University Joint University-Industry Research Symposium, the Princeton Institute for the Science and Technology of Materials (PRISM), Princeton University, March 19-20, 2007 Invited: "Minorities in the Mix: If Not Now, When?" Conference on Minorities in Research Science, Baltimore, MD, September 15-17, 2005

Invited: "Applications of Ultrafast Optical Technology," Conference of the National Society of Black Physicists & Black Physics Students and The National Society of Hispanic Physicists, Washington, DC, February 18-21, 2004

Invited: "Research Opportunities in Optics," Conference of the National Society of Black Physicists & Black Physics Students and The National Society of Hispanic Physicists, Washington, DC, February 18-21, 2004

Invited: "Physics **CAREER** Awards at New Jersey Institute of Technology (NJIT)" **NSF** Mentoring & Networking Workshop for **CAREER** Awardees, NSF Headquarters, Arlington, Virginia, January 21-23, 2004. [Five **CAREER** Awards were granted to junior faculty during my 8-year term as NJIT Department Chair of Physics.]

<u>Plenary, Keynote and Invited Presentations – NJIT and Bell Laboratories</u>

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<u>Opening Session Keynote</u>: "Pleasures of Being a Professor and Barriers to Overcome," 10th Annual Compact for Faculty Diversity, Institute on Teaching & Mentoring, Miami, Florida, October 30-November 2, 2003

Invited: "The Role of Professional Societies in Student and Faculty Development," 10th Annual Compact for Faculty Diversity, Institute on Teaching & Mentoring, Miami, Florida, October 30-November 2, 2003

Invited: "The Measurement of Optical Nonlinearities in Telecommunication Fibers – A New Approach," APS April Meeting, Invited Session entitled *Precision Measurements for Industry*, Philadelphia, PA, April 5-8, 2003

Invited: Two, 1.5-hour invited lectures entitled, "Ultrafast Optical Phenomena" and "The Measurement of Optical Nonlinearities in Telecommunication Fibers -- A New Approach," VIII Jorge Andre Swieca Summer School on Quantum and Nonlinear Optics, Physics Institute of the State University of Campinas (UNICAMP), Campinas, Brazil, January 7-18, 2002

<u>Plenary</u>: "Ultrafast Optical Phenomena," Australian Conference on Optics, Lasers, and Spectroscopy 2001 (ACOLS 2001), University of Queensland, Brisbane, Australia, December 3-6, 2001

Invited: 1-hour lecture, "The Measurement of Optical Nonlinearities in Telecommunication Fibers -- A New Approach," 4th Edward Bouchet International Conference on Physics and High Technology, Cotonou, Benin, West Africa, August 6-10, 2001

<u>Plenary</u>: "Ultrafast Optical Phenomena," **OSA Presidential & Plenary Talk** at the Annual Meeting of the **Mexican Academy of Optics**, Puebla City, Mexico, November 2000

Invited: 2-hour lecture, "Measurement of Nonlinearities in Silicon Nanoclusters and Telecommunication Fibers," International Centre for Theoretical Physics (ICTP), Winter College on Optics and Photonics, Miramare-Trieste, Italy, 7-25 February 2000

Invited: "Ultrafast Optical and Optoelectronic Phenomena in II-VI and III-V Semiconductor Multiple Quantum Wells," **1996 APS Edward A. Bouchet Award Lecture,** March Meeting of the **APS**, St. Louis, Missouri, March 1996

Invited: "Picosecond Measurement of Carrier Escape Times in InGaAs Quantum Well Modulators," University of Witwatersrand, Dept. of Physics, Johannesburg, South Africa, November 30, 1995

Invited: "An African-American Physicist – Experiences, Strategies, and Personal Accounts," Foundation for Research Development (analog of the US NSF), Pretoria, South Africa, November 29, 1995

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Invited: "Picosecond Measurement of Carrier Escape Times in InGaAs Quantum Well Modulators," University of Cape Town, Dept. of Physics, Cape Town, South Africa, November 27, 1995

Invited: "Picosecond Measurement of Carrier Escape Times in InGaAs Quantum Well Modulators," National Accelerator Centre, Faure, South Africa, November 24, 1995

Invited: "Picosecond Measurement of Carrier Escape Times in InGaAs Quantum Well Modulators," University of Port Elizabeth, Dept. of Physics, Port Elizabeth, South Africa, November 20, 1995

Invited: "Ultrafast Optical Phenomena," **Howard Hughes Foundation Lecture**, Rutgers University – Newark, NJ, February 21, 1995

<u>Plenary</u>: "Ultrafast Optical Phenomena," Winter Meeting of the American Association of Physics Teachers (**AAPT**), Orlando, Florida, January 16, 1995

Invited: "Mentoring -- 20 Years of Personal Observations," **OSA Annual Meeting**, Dallas, Texas, October 1994

Invited: "Femtosecond Exciton Dynamics of II-VI Semiconductor Multiple Quantum Wells," **OSA & IEEE/LEOS** Quantum Optoelectronics Topical Meeting, Palm Springs, California, March 1993

Invited: "Femtosecond Exciton Dynamics of II-VI Semiconductor Multiple Quantum Wells," March Meeting of the **APS**, Seattle, Washington, March 1993

<u>Tutorial</u>: "The Generation of Ultrashort Pulses of Light – Compression in Optical Fibers," International Workshop on the *Physics & Modern Applications of Lasers*, University Cheikh Anta Diop, Dakar, Senegal, West Africa, May 22-28, 1991

<u>Tutorial</u>: "The Generation of Ultrashort Pulses of Light – Compression in Optical Fibers," Summer School III, *Ultrafast & Super-Intense Laser Technology, Science & Applications*, Ontario Laser & Lightwave Research Centre, University of Toronto, Toronto, Canada, May 21-23, 1991.

<u>Tutorial</u>: "The Generation of Ultrashort Pulses of Light – Compression in Optical Fibers," Winter College on *Ultrafast Phenomena*, International Centre for Theoretical Physics (**ICTP**), Trieste, Italy, February 18-22, 1991

<u>Tutorial</u>: "The Generation of Ultrashort Pulses of Light – Compression in Optical Fibers," Training College on *Physics & Characterization of Lasers & Optical Fibers*, International Centre for Theoretical Physics (**ICTP**), Trieste, Italy, February 26 - March 2, 1990

Other Professional Presentations

SPIE Interview and Video of Anthony Johnson and Elaine Lalanne at the CASPR Ultrafast Optics & Optoelectronics Lab of UMBC during the SPIE 2012 Defense, Security + Sensing Conference, held 23-27 April 2012 in Baltimore, MD, SPIE Newsroom, Lasers & Sources, "Anthony Johnson: Center explores the mid-IR for new sensing capabilities":

http://spie.org/x91019.xml DOI: 10.1117/.2.3201210.07

During my 2002 term as **President** of the Optical Society of America (**OSA**), I prepared a monthly column for *Optics & Photonics News* entitled "*From the President*," presenting my personal thoughts, views and updates about the OSA:

https://www.osa-opn.org/opn/media/Images/PDFs/1211_2173_12411.pdf?ext=.pdf -- Jan. 2002 https://www.osa-opn.org/opn/media/Images/PDFs/1227_2195_12442.pdf?ext=.pdf -- Feb. 2002 https://www.osa-opn.org/opn/media/Images/PDFs/1240_2216_12468.pdf?ext=.pdf -- March 2002

https://www.osa-opn.org/opn/media/Images/PDFs/1266_2241_12521.pdf?ext=.pdf -- April 2002 https://www.osa-opn.org/opn/media/Images/PDFs/1283_2258_12556.pdf?ext=.pdf -- May 2002 https://www.osa-opn.org/opn/media/Images/PDFs/1210_2172_12409.pdf?ext=.pdf -- June 2002 https://www.osa-opn.org/opn/media/Images/PDFs/1431_2546_14252.pdf?ext=.pdf -- July 2002 https://www.osa-opn.org/opn/media/Images/PDFs/1528_2768_15131.pdf?ext=.pdf -- Aug. 2002 https://www.osa-opn.org/opn/media/Images/PDFs/1625_2945_15790.pdf?ext=.pdf -- Sep. 2002 https://www.osa-opn.org/opn/media/Images/PDFs/1687_3089_16432.pdf?ext=.pdf -- Oct. 2002 https://www.osa-opn.org/opn/media/Images/PDFs/1772_3240_17157.pdf?ext=.pdf -- Nov. 2002 https://www.osa-opn.org/opn/media/Images/PDFs/1863_3431_18005.pdf?ext=.pdf -- Dec. 2002

SERVICE TO THE DEPARTMENT, UNIVERSITY, COMMUNITY, AND PROFESSION

Service to the Department

2020	Chair, Post Tenure Review Committee for Prof. Theodosia Gougousi (Physics)
2020	Chair, DP&TC for Prof. Zhibo Zhang (Physics)
2019	Member, Post Tenure Review Committee for Prof. Michael Hayden (Physics)
2018	Chair, Post Tenure Review Committee for Prof. Curtis Menyuk (CSEE)
2018	Member, Post Tenure Review Committee for Prof. Fow-Sen Choa (CSEE)
2018	Member, Post Tenure Review Committee for Prof. Chien-I Cheng (CSEE)
2016	Member, Post Tenure Review Committee for Prof. James Franson (Physics)
2015	Member, Departmental Promotion & Tenure Committee (DP&TC) for Prof. Todd
	Pittman (Physics)
2014	Chair, Post Tenure Review Committee for Prof. Yanhua Shih (Physics)
2013	Member, DP&TC for Prof. Vanderlei Martins (Physics)
2012	Member, DP&TC for Prof. Jane Turner (Physics)
2005-2007	Member, Research Council

Service to the University

2020-Present	Member, Center for the Advancement of Learning and Teaching (CALT) Task
	Force reporting to the Provost
2015	Member, Library Director Search Committee

2012	Member, University System of Maryland Nomination Committee for Regent's
2011-Present	,
	Underrepresented Minority (URM) Faculty reporting to the Provost
Service to tl	he Community
2013-2014	Duncan Rheingans-Yoo, Oakland Mills High School, Gifted and Talented Program, Columbia, MD (son of Prof. Penny Rheingans, CSEE) interned with me 5 hours/week learning about photoluminescence in semiconductors – in 2015 he accepted early admission to Harvard
1/17/2013	Douglass Janssen, NSF MIRTHE RET High School Teacher brought 28 science students from Greater Grace Christian Academy, Baltimore, MD to visit and tour the CASPR Lab
4/8/2010	Shelly Watts (UMBC Physics MS-2009) and currently Chair of the Science Program at Friends School of Balitmore High School, Baltimore, MD, brought 20 high school senior physics students and administrators to the CASPR Lab for a visit and tour
2000-2008	Member, Greater Freehold, NJ NAACP (National Association for the Advancement of Colored People), Branch No. 2363
1996-2003	Member, Freehold Township Human Rights Council
1995-2003	Member, Freehold Township School District Science Advisory Committee
7/1993	Judge (Physics and Engineering) for the Afro-Academic, Cultural, Technological and Scientific Olympics (ACT-SO) at the NAACP National Convention,
	Indianapolis, Indiana
Service to tl	
Service to tl 2007-2019	Indianapolis, Indiana he Profession – American Institute of Physics (AIP) OSA Representative to the Liaison Committee for Underrepresented Minorities (LCURM)
	he Profession – American Institute of Physics (AIP) OSA Representative to the Liaison Committee for Underrepresented Minorities
2007-2019	he Profession – American Institute of Physics (AIP) OSA Representative to the Liaison Committee for Underrepresented Minorities (LCURM)
2007-2019 2002-2008	he Profession – American Institute of Physics (AIP) OSA Representative to the Liaison Committee for Underrepresented Minorities (LCURM) Member, Governing Board Member, Advisory Committee of the Education and Employment Statistics
2007-2019 2002-2008 1995-1997 3/1994	OSA Representative to the Liaison Committee for Underrepresented Minorities (LCURM) Member, Governing Board Member, Advisory Committee of the Education and Employment Statistics Division Member, <i>Physics Today</i> roundtable, organized by Gloria Lubkin, Editor, " <i>Physics Roundtable: Reinventing Our Future</i> ," Physics Today , 47(3) p.30
2007-2019 2002-2008 1995-1997 3/1994 Service to tl	he Profession – American Institute of Physics (AIP) OSA Representative to the Liaison Committee for Underrepresented Minorities (LCURM) Member, Governing Board Member, Advisory Committee of the Education and Employment Statistics Division Member, Physics Today roundtable, organized by Gloria Lubkin, Editor, "Physics
2007-2019 2002-2008 1995-1997 3/1994 Service to tl	OSA Representative to the Liaison Committee for Underrepresented Minorities (LCURM) Member, Governing Board Member, Advisory Committee of the Education and Employment Statistics Division Member, Physics Today roundtable, organized by Gloria Lubkin, Editor, "Physics Roundtable: Reinventing Our Future," Physics Today, 47(3) p.30 he Profession – American Physical Society (APS)
2007-2019 2002-2008 1995-1997 3/1994 Service to tl 2018-Present	OSA Representative to the Liaison Committee for Underrepresented Minorities (LCURM) Member, Governing Board Member, Advisory Committee of the Education and Employment Statistics Division Member, Physics Today roundtable, organized by Gloria Lubkin, Editor, "Physics Roundtable: Reinventing Our Future," Physics Today, 47(3) p.30 The Profession – American Physical Society (APS) Distinguished Traveling Lecturer, APS Division of Laser Science (DLS)
2007-2019 2002-2008 1995-1997 3/1994 Service to tl 2018-Present 2016-2018 2015-2019	ne Profession – American Institute of Physics (AIP) OSA Representative to the Liaison Committee for Underrepresented Minorities (LCURM) Member, Governing Board Member, Advisory Committee of the Education and Employment Statistics Division Member, Physics Today roundtable, organized by Gloria Lubkin, Editor, "Physics Roundtable: Reinventing Our Future," Physics Today, 47(3) p.30 The Profession – American Physical Society (APS) Distinguished Traveling Lecturer, APS Division of Laser Science (DLS) Member, Nominating Committee Chair, Bridge Program's National Advisory Board http://www.apsbridgeprogram.org/about/leadership.cfm
2007-2019 2002-2008 1995-1997 3/1994 Service to tl 2018-Present 2016-2018 2015-2019 2013-2014	ne Profession – American Institute of Physics (AIP) OSA Representative to the Liaison Committee for Underrepresented Minorities (LCURM) Member, Governing Board Member, Advisory Committee of the Education and Employment Statistics Division Member, Physics Today roundtable, organized by Gloria Lubkin, Editor, "Physics Roundtable: Reinventing Our Future," Physics Today, 47(3) p.30 The Profession – American Physical Society (APS) Distinguished Traveling Lecturer, APS Division of Laser Science (DLS) Member, Nominating Committee Chair, Bridge Program's National Advisory Board http://www.apsbridgeprogram.org/about/leadership.cfm Member, Executive Board
2007-2019 2002-2008 1995-1997 3/1994 Service to tl 2018-Present 2016-2018 2015-2019 2013-2014 2012	OSA Representative to the Liaison Committee for Underrepresented Minorities (LCURM) Member, Governing Board Member, Advisory Committee of the Education and Employment Statistics Division Member, Physics Today roundtable, organized by Gloria Lubkin, Editor, "Physics Roundtable: Reinventing Our Future," Physics Today, 47(3) p.30 Me Profession – American Physical Society (APS) Distinguished Traveling Lecturer, APS Division of Laser Science (DLS) Member, Nominating Committee Chair, Bridge Program's National Advisory Board http://www.apsbridgeprogram.org/about/leadership.cfm Member, Executive Board Chair, Selection Committee for the Edward A. Bouchet Award
2007-2019 2002-2008 1995-1997 3/1994 Service to tl 2018-Present 2016-2018 2015-2019 2013-2014 2012 2011	OSA Representative to the Liaison Committee for Underrepresented Minorities (LCURM) Member, Governing Board Member, Advisory Committee of the Education and Employment Statistics Division Member, Physics Today roundtable, organized by Gloria Lubkin, Editor, "Physics Roundtable: Reinventing Our Future," Physics Today, 47(3) p.30 Me Profession – American Physical Society (APS) Distinguished Traveling Lecturer, APS Division of Laser Science (DLS) Member, Nominating Committee Chair, Bridge Program's National Advisory Board http://www.apsbridgeprogram.org/about/leadership.cfm Member, Executive Board Chair, Selection Committee for the Edward A. Bouchet Award Member, Selection Committee for the Edward A. Bouchet Award
2007-2019 2002-2008 1995-1997 3/1994 Service to tl 2018-Present 2016-2018 2015-2019 2013-2014 2012	OSA Representative to the Liaison Committee for Underrepresented Minorities (LCURM) Member, Governing Board Member, Advisory Committee of the Education and Employment Statistics Division Member, Physics Today roundtable, organized by Gloria Lubkin, Editor, "Physics Roundtable: Reinventing Our Future," Physics Today, 47(3) p.30 Me Profession – American Physical Society (APS) Distinguished Traveling Lecturer, APS Division of Laser Science (DLS) Member, Nominating Committee Chair, Bridge Program's National Advisory Board http://www.apsbridgeprogram.org/about/leadership.cfm Member, Executive Board Chair, Selection Committee for the Edward A. Bouchet Award Member, Selection Committee for the Edward A. Bouchet Award Member, DLS (Division of Laser Science) Executive Committee and
2007-2019 2002-2008 1995-1997 3/1994 Service to tl 2018-Present 2016-2018 2015-2019 2013-2014 2012 2011 2011-2014	OSA Representative to the Liaison Committee for Underrepresented Minorities (LCURM) Member, Governing Board Member, Advisory Committee of the Education and Employment Statistics Division Member, Physics Today roundtable, organized by Gloria Lubkin, Editor, "Physics Roundtable: Reinventing Our Future," Physics Today, 47(3) p.30 Me Profession – American Physical Society (APS) Distinguished Traveling Lecturer, APS Division of Laser Science (DLS) Member, Nominating Committee Chair, Bridge Program's National Advisory Board http://www.apsbridgeprogram.org/about/leadership.cfm Member, Executive Board Chair, Selection Committee for the Edward A. Bouchet Award Member, DLS (Division of Laser Science) Executive Committee and Representative to APS Council
2007-2019 2002-2008 1995-1997 3/1994 Service to tl 2018-Present 2016-2018 2015-2019 2013-2014 2012 2011	OSA Representative to the Liaison Committee for Underrepresented Minorities (LCURM) Member, Governing Board Member, Advisory Committee of the Education and Employment Statistics Division Member, Physics Today roundtable, organized by Gloria Lubkin, Editor, "Physics Roundtable: Reinventing Our Future," Physics Today, 47(3) p.30 Me Profession – American Physical Society (APS) Distinguished Traveling Lecturer, APS Division of Laser Science (DLS) Member, Nominating Committee Chair, Bridge Program's National Advisory Board http://www.apsbridgeprogram.org/about/leadership.cfm Member, Executive Board Chair, Selection Committee for the Edward A. Bouchet Award Member, Selection Committee for the Edward A. Bouchet Award Member, DLS (Division of Laser Science) Executive Committee and

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2008	Member, Search Committee for the Executive Officer (EO) – Kate Kirby became EO in 2009
2006-2008	Member, Nominating Committee
1997-1999	Member, Committee on Fellowship
1997	Member, Selection Committee for the Edward A. Bouchet Award
1996-1998	Member, Committee on Committees
1996-1998	Member, Fellowship Committee of the DLS
1996	Member, Committee on the Forum on Education
1996-1997	Member, Executive Board
1994-1997	General Councillor
1993-1995	Member, Executive Committee of the Laser Science Topical Group
1993-1994	Member, Selection Committee of the Visiting Minority Lectureship
1992-1993	Chair, Committee on Minorites in Physics
1991	Member, Committee on Minorities in Physics
1771	Welliber, Committee on Minorities in Thysics
	ne Profession – Conference Program Committees
4/2016	Program Committee Member and Session Chair, Laser Technology for Defense
	and Security XII Conference of the SPIE (International Society for Optics and
4/0015	Photonics) Defense + Commercial Sensing Meeting, Baltimore, MD
4/2015	Program Committee Member and Session Chair, Laser Technology for Defense
	and Security XI Conference of the SPIE (International Society for Optics and
1/0011	Photonics) Defense, Security and Sensing Meeting, Baltimore, MD
4/2014	Program Committee Member and Session Chair, Laser Technology for Defense
	and Security X Conference of the SPIE Defense, Security and Sensing Meeting,
4/2012	Baltimore, MD
4/2013	Program Committee Member and Session Chair, Laser Technology for Defense
	and Security IX Conference of the SPIE Defense, Security and Sensing Meeting,
4/0010	Baltimore, MD
4/2012	Program Committee Member and Session Chair, Laser Technology for Defense
	and Security VIII Conference of the SPIE Defense, Security and Sensing
4/2011	Meeting, Baltimore, MD
4/2011	Program Committee Member and Session Chair, Laser Technology for Defense
	and Security VII Conference of the SPIE Defense, Security and Sensing Meeting,
1/0010	Orlando, FL
4/2010	Program Committee Member and Session Chair, Laser Technology for Defense
	and Security VI Conference of the SPIE Defense, Security and Sensing Meeting,
- (- 0 0 0	Orlando, FL
5/2009	Advisory Committee/Program Committee, OPTOmism: Photonics for the Green
	Revolution, Santa Clara, CA
4/2009	Program Committee Member and Session Chair, Laser Technology for Defense
	and Security V Conference of the SPIE Defense, Security and Sensing Meeting,
40/2002	Orlando, FL
10/2003	Program Committee Member, ETOP '2003 (Education and Training in Optics
	and Photonics), Tucson, Arizona
2001-2002	Member, CLEO (Conference on Lasers and Electro-Optics) Program
	Subcommittee on Ultrafast Optics and Electronics

1000	Manufaction Advisors Committee 1000 Carden Danson Conference
1999	Member, Advisory Committee, 1999 Gordon Research Conference on
1006	Nonlinear Optics and Lasers.
1996	Chair, CLEO '96 Steering Committee
1994	Member, APS Interdisciplinary Laser Science Conference (ILS) Program
1004	Subcommittee on Nonlinear Optics and Ultrafast Phenomena
1994	Organized and Chaired the Joint ILS/OSA Symposium on <i>Ultrashort Pulse Solid-</i>
1004	State Lasers, OSA/ILS Annual Meeting
1994	Member, Program Committee of the Ninth International Conference on
1004	Ultrafast Phenomena, Dana Point
1994	Organized and Chaired the Symposium on <i>Minority Researchers at the</i>
1004	Forefront at the March Meeting of the APS
1994	Member, Program Committee of Nonlinear Optics '94: Materials,
1002 2004	Fundamentals, and Applications, Maui, Hawaii
1993-2004	Member, IEEE LEOS Annual Meeting Subcommittee on Ultrafast Optics and
1002	Electronics
1993	Member, Program Committee of the Eleventh International Conference on Laser
1002	Spectroscopy (ELICOLS '93)
1993	Organized and Chaired the Symposium on <i>Research at Minority Institutions</i> at the
0/1002	Joint April Meeting of the APS and AAPT Markhan Stanzing (Organizing Committee for the Insurant Forum and Organization)
9/1993	Member, Steering/Organizing Committee for the Inaugural Forum and Open
1002	House for the Research Center for Optical Physics at Hampton University
1993	Steering/Organizing Committee Member, American Association of Physics
	Teachers (AAPT), Topical Conference on Recruitment and Retention of
1992-1994	Minorities in Physics CLEO Steering Committee Ligison to the Joint Council on Quantum
1992-1994	CLEO Steering Committee Liaison to the Joint Council on Quantum Electronics
1992	
1992 1991-1994	Conference General Co-Chair of CLEO '92, Anaheim, California Member, CLEO Steering Committee
1991-1994	Member-at-Large CLEO '91 and CLEO/IQEC Technical Program Liaison
1991	Conference Program Co-Chair of CLEO '90 , Anaheim, California
8/1990	Member, Executive Council and Technical Program Committee of the Second
0/1990	Edward Bouchet International Conference on Physics and Technology,
	University of Ghana, Accra, Ghana, West Africa
4/1989	Chair, National Society of Black Physicists Annual Meeting, held at AT&T Bell
4/1909	Laboratories, Holmdel, NJ
1988	Organized and Chaired Symposium on <i>Ultrashort Nonlinear Pulse Propagation</i>
1900	in Optical Fibers, OSA Annual Meeting
6/1988	Member, Program Committee of the First Edward Bouchet International
0/1900	, ,
	Conference on Physics and Technology , International Centre for Theoretical Physics (ICTP), Trieste, Italy
1985-1988	Member, Program Committee of the OSA Annual Meeting
1985-1988	
1703	Organized and Chaired Symposium on <i>Ultrashort Pulses in Optical Fibers</i> , OSA
	Annual Meeting

<u>Service to the Profession – Department of Energy (DOE)</u>

4/2008	Member, Basic Energy Sciences Advisory Committee (BESAC), Committee of Visitors for the Chemical Sciences, Geosciences, and Biosciences Division,
	Germantown, MD
1999-2008	Member, Basic Energy Sciences Advisory Committee (BESAC)
9/1997	Member, Workshop on Atomic, Molecular, and Optical Physics – Panel on
	"Interactions of Atoms and Molecules with Photons – High Field"
Carriag to 4	ha Duafassian - Editarial Advisory Daguda
2018-2019	he Profession – Editorial Advisory Boards Member, Search Committee for a new Editor-in-Chief of the OSA Journal
2010-2019	Advances in Optics and Photonics (AOP)
2011-2018	Founding Member, Editorial Board of APS open access journal
2011-2010	Physical Review X (PRX) http://journals.aps.org/prx/staff
2011-2016	Co-Contributing Editor, OSA <i>Optics & Photonics News (OPN)</i> column,
2011-2010	"Reflections in Diversity"
1996-2001	Member, OSA Board of Editors
1995-2001	Editor-in-Chief of the OSA journal <i>Optics Letters</i>
5/1992	Guest Editor, Special Issue of OSA Optics & Photonics News on Ultrafast Optics
3/1//2	& Optoelectronics
1990-Present	•
1989-1995	Topical Editor, <i>Ultrafast Optical Phenomena</i> of the OSA journal <i>Optics Letters</i>
2/1988	Guest Editor, Special Issue of IEEE Journal of Quantum Electronics on
2, 1900	Ultrafast Optics and Electronics, vol. QE-24
1989-1991	Member, <i>Optics & Photonics News</i> Editorial Advisory Committee
1989-1994	Member, Journal of the National Technical Association (NTA) Science and
	Technology Advisory Board
	he Profession – IEEE Lasers & Electro-Optics Society (LEOS) – IEEE
Photonics S	ociety (IPS)
2021-	Member, 2021 IEEE Technical Activities Board (TAB) Committee on
	Diversity and Inclusion (CDI)
2016-2019	Member, IEEE Corporate Innovation Award Committee
2009-2010	_Chair, IEEE Photonics Society, Fellows Evaluation Committee
2005-2008	Member, IEEE LEOS, Fellows Evaluation Committee
1996	Chair, IEEE LEOS Committee of the William Streifer Scientific Achievement
	Award
1995	Member, IEEE Quantum Electronics and IEEE LEOS Distinguished Lecturer
	Awards Committees
1993-1995	Member, IEEE LEOS Board of Governors
1991-1993	Chair, IEEE LEOS Ultrafast Optics and Electronics Technical Subcommittee
1989-1990	Member, IEEE/LEOS Ultrafast Optics and Electronics Technical Subcommittee
Sarvica to t	he Profession – National Research Council (NRC)
5/2020	Member, National Academies Panel on Materials and Manufacturing Sciences at
3/2020	the Army Research Laboratory (ARL)
2013-2015	Member, NRC Committee on Atomic, Molecular and Optical Science (CAMOS)
2013-2013	Memori, Two Committee on Atomic, Molecular and Optical Science (CAMOS)

2009-2014	Member-at-Large, National Academies U.S. Liaison Committee for the
2005 2007	International Union of Pure and Applied Physics (IUPAP)
2005-2007	Member, NRC Board on Assessment of NIST Programs, Measurement and
	Assessment Laboratories
2005-2006	Member, Committee on AMO2010: Atomic, Molecular, and Optical Science
	operating under the auspices of the Board on Physics and Astronomy (BPA) of
	the NRC's Division of Engineering and Physical Sciences
3/2001	Member, Physical Sciences Panel for the NRC's Associateship Programs Review
1996-1999	Member, Committee on Atomic, Molecular, and Optical Sciences (CAMOS),
	operating under the auspices of the Board on Physics and Astronomy (BPA) of
	the NRC's Commission on Physical Sciences, Mathematics, and Applications
1993-1995	Member, NRC Board on Assessment of the National Institute of Standards and
1775-1775	
	Technology (NIST) Programs, Panel for Physics

Service to the Profession – National Science Foundation (NSF) Member NSF Science & Technology Center (STC) External Advisory

6/2020	Member, NSF Science & Technology Center (STC) External Advisory
	Committee for the STC on Real-Time Functional Imaging (STROBE), with lead
	institution University of Colorado at Boulder and PI Margaret M. Murnane
3/2015	Member, NSF ECCS-ELECT, PHOTONICS & MAG DEVICE Panel – Lasers
	& Detectors, Arlington, VA
11/2011	Member, NSF Site Visit and Review, Partnership for Research and Education in
	Materials (PREM), New Mexico Highlands University
8/2010	Member, NSF Physics Frontiers Center Third –Year Site Visit to the Joint
	Quantum Institute (JQI), University of Maryland College Park
2006-2016	Deputy Director NSF Engineering Research Center (ERC) MIRTHE
	(Mid-Infrared Technologies for Health and the Environment) centered at
	Princeton University http://www.mirthecenter.org
2003	Member, NSF Engineering Research Centers (ERC) Panel and Site Visit Team
	meetings and site visits cover the period January 22-23 through April 22-25
1/1997	Panel Review Member for NSF CAREER Awards in the Division of Materials
	Physics Condensed Matter Physics: Semiconductors
5/1996	Member, NSF Special Emphasis Panel to review the Atomic, Molecular,
	Optical, and Plasma Physics program in the Physics Division
5/1996	Panel Review Member for NSF Academic Research Infrastructure
	Instrumentation (ARI) proposals for the Division of Materials Research
5/1994	Member, NSF Workshop entitled: Optical Science and
	Engineering: New Directions and Opportunities in Research and Education
	Member of the Fundamental Optical Interactions Subcommittee
7/1994	Member, NSF Triennial Physics Division Oversight Review the
	Committee of Visitors Member of the Atomic, Molecular, and Optical
	Physics (AMO) Subcommittee

<u>Service to the Profession - National Conference of Black Physics Students (NCBPS)</u>

Served as an invited speaker, workshop organizer, session chair, fund raiser, and program committee member

Service to the Professon – National Society of Black Physicists (NSBP)		
1993-Present	Served as an invited speaker, workshop organizer, session chair, fund raiser,	
	program committee member and advisor.	
2006-2011	Judge along with Prof. Peter Delfyett (University of Central Florida, CREOL) for the OSA/SPIE Best Poster Awards in Optics & Photonics at the Joint Meeting of the NBSP and the National Society of Hispanic Physicists (NSHP) \$400 First Prizes for Best Undergraduate and Graduate Posters; and \$200 Second Prizes for	
	runner up Undergraduate and Graduate Posters; as well as Student Memberships in OSA and SPIE	
1992-2000	Chair, NSBP Nominations and Screening Committee	
4/1989	Chair, NSBP Annual Meeting, April 5-7, 1989, held at AT&T Bell Laboratories, Holmdel, NJ.	
Coursian to the	as Durafassian Ontical Society of America (OSA)	
	Member OSA Diversity Equity and Inclusion Parid Action Committee	
	Member, OSA Diversity, Equity and Inclusion Rapid Action Committee (DEI RAC)	
2017-2019	Member, The Frederic Ives Medal/Jarus Quinn Prize Committee – the highest	
	award of the OSA	
2007-2019	OSA Representative to the AIP Liaison Committee for Underrepresented	
	Minorities (LCURM)	
2005	Member, OSA 2005 C. E. K. Mees Medal Committee	
2005	Past Chair, OSA Nominating Committee	
2004	Chair, OSA Nominating Committee	
2004-2006	Member, OSA Audit Committee	
2003-Present	Founding Member and OSA Representative to the TSOSA (Trieste System	
	Optical Sciences and Applications) International Advisory Group which meets	
	annually (February) during the ICTP (International Centre for Theoretical	
	Physics) Winter School on Optics in Trieste, Italy – fosters optics and photonics	
	education and research to developing nations	
2003	Member, 2003 OSA Nominating Committee	
2002	President of the OSA	
2002-Present	OSA Presidential Advisory Committee (PAC)	
2000-2003	Member, OSA Board of Directors	
1996-2001	Member, OSA Board of Editors	
1995-1997	Member, OSA/Materials Research Society Congressional Fellow Selection	
	Committee	
1994-1998	Co-Chair, OSA Committee on Women and Minorities in Optics	
1994	Member, OSA Education Council	
1994	Member, OSA Nominating Committee (1994)	
1993-1995	Member, OSA Board of Directors	
1990	Chair, OSA R. W. Wood Prize Committee	
1989	Member, OSA R. W. Wood Prize Committee	
1000 1000	ACT TO BE TOOM ATTLE OF THE TOTAL TRANSPORT O	

Member and Co-Founder, **OSA** Ad Hoc Committee on Women and Minorities in

1988-1993

Optics

1986-1987 Member, **OSA** Technical Council and Chair of the *Ultrafast Optical Phenomena* Technical Group

<u>Service to the Profession – Technical Advisory Boards</u>		
5/2020	Member, External Review Team for the Institute of Optics, University of	
	Rochester	
2018-2021	Member, Advisory Council for the Princeton Institute for the Science and	
	Technology of Materials (PRISM) at Princeton University	
2007-2018	Member, External Advisory Board of the NSF Advanced Technological	
	Education (ATE) funded OP-TEC, the National Center for Optics and Photonics	
	Education: http://op-tec.org	
2006-2017	Member, External Advisory Committee for the NSF Center for Research	
	Excellence in Science and Technology (CREST) Center of Research and	
	Education in Optical Sciences and Applications (CREOSA) at Delaware State	
	University (an HBCU) in Dover, DE	
2006-2011	Member, External Advisory Committee, NSF Partnership for Research and	
	Education in Materials (PREM): Partnership for Photonic Metamaterials at	
	Norfolk State University (an HCBU) in Norfolk, VA	
2003-Present	Member, representing the Optical Society of America (OSA) of the TSOSA	
	(Trieste System Optical Sciences and Applications) Advisory Group which meets	
	annually during the ICTP (International Centre for Theoretical Physics) Winter	
1000 2007	School on Optics in Trieste, Italy	
1999-2006	Member, Planning and Advisory Committee, Norfolk State University (Norfolk,	
1007 1000	VA) NSF sponsored Center for Photonic Materials Research	
1996-1998	Member, NSF External Advisory Committee for Integrated Core Curriculum for	
	Mathematics, Physics, and Chemistry at Hunter College project under direction from Dr. Robert Marine, Chair Dept. of Physics, Hunter College	
1996-1997	from Dr. Robert Marino, Chair Dept. of Physics, Hunter College Member, NSF, National Visiting Committee for the Course and Curriculum	
1990-1997	Development Project, "Activity Based Physics: Curricula, Computer Tools, and	
	Apparatus for Introductory Physics Courses" project under direction of	
	Principal Investigator Dr. Priscilla Laws, Dickinson College	
1994-1998	Member, Technical Advisory Board of Alabama A&M University's Center for	
1774-1770	Nonlinear Optics and Materials an NSF Minority Research Center of	
	Excellence (MRCE)	
1992-1998	Member, External Advisory Board of the University of Michigan's Center for	
1772 1770	Ultrafast Optical Science an NSF Science and Technology Center (STC)	
1990-1995	Member, US Department of Energy (DOE), Jackson State University	
1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(JSU)/Lawrence Berkeley Laboratory/Ana G. Mendez Educational Foundation	
	Consortium Advisory Committee	

<u>Service to the Profession – Other Professional Service</u>

2014-2016 Member, Steering Committee of the International Year of Light and Light-based Technologies (IYL2015) http://www.light2015.org/Home.html

Anthony M. Johnson25Curriculum Vitae 5/2021

1993-1995 Member, Discipline Advisory Committee for Fulbright Scholar Awards in

Physics for the Council for International Exchange of Scholars

1991-Present International Coordinator (USA), African Laser Atomic and Molecular Sciences

Network [LAM Network] [Dr. A. Wague, President, LAM Network, Univ. of

Cheikh Anta Diop, Dakar, Senegal, West Africa]

1988-Present Member, Executive Council, The Edward A. Bouchet—ICTP Institute [ICTP,

International Centre for Theoretical Physics, Trieste, Italy]

http://ebasi.org

Courses Taught at UMBC

CMPE 330 Spring 2016 Electromagnetic Waves & Transmission

PHYS 609 Fall 2016 Modern Optics

PHYS 609 Fall 2017 Modern Optics

ENEE 788 Spring 2018 Topics in Electrophysics and Photonics: Ultrafast Optics & Applications

PHYS 609 Fall 2018 Modern Optics

CMPE 306 Fall 2018 Introductory Circuit Theory

CMPE 306 Spring 2019 Introductory Circuit Theory

PHYS 609 Fall 2020 Modern Optics (online)

CMPE 306 Fall 2020 Introductory Circuit Theory (online)

ENEE 684/CMPE 491 Spring 2021 Introduction to Photonics (online)