CURRICULUM VITAE

Dr. Paul E. Johnson

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EDUCATION

2023 PhD (Science and Religion), Univ. of Edinburgh (UK)
(Thesis: *Talking with God: Prayer and Inspiration in the Age of Neuroscience)*
2020 MSc, *with Distinction* (Science and Religion), Univ. of Edinburgh (UK)
1979 PhD (Astronomy), Univ. of Washington (Seattle)
1973 BS (Physics), Davidson College (Davidson, NC)

POSITIONS

2023-2024 MDiv student, Garrett Evangelical Theological University, Evanston, Illinois
2019-2023 MSc/PhD student, Divinity School, University of Edinburgh.
2016-current Prof. Emeritus, Department of Physics and Astronomy, University of Wyoming
1999-2003 Director, Wyoming Infrared Observatory
1998-2016 Director, Wyoming NASA EPSCoR (Experimental Program for the Stimulation of Competitive Research)
1997-2008 Chair, Department of Physics and Astronomy, University of Wyoming
1993-2016 Professor, Department of Physics and Astronomy, University of Wyoming
1990-2016 Director, Wyoming Space Grant Consortium
1986-1993 Associate Professor, Dept. of Physics and Astronomy, University of Wyoming
1981-1986 Assistant Professor, Dept. of Physics and Astronomy, University of Wyoming
1980-1981 Senior Research Fellow, United Kingdom Infrared Telescope Project, Royal Observatory, Edinburgh
1979-1981 NASA-National Research Council Resident Research Associate, Jet Propulsion Laboratory, Pasadena

MEMBERSHIPS

American Academy of Religion, European Society for the Study of Science and Theology

CURRENT RESEARCH INTERESTS

- Neurotheology
- Language-enabled inspiration connecting humans and God
- Ignatian prayer
- Open and relational theology

PATENTS

Six issued (including Fountain Flow Cytometry of bacteria and detection of bacteria from swabs).

PUBLICATIONS

Journal Articles *(12 selected from 44)*

Johnson, P.E. 2024. "A Predictive Processing Model of Conscious and Unconscious Belief Change and Reinforcement through Language." *Reviews in Science, Religion and Theology*, 3(1), 5-18.

Johnson, P.E. 2022. 'Cognitive Neuroscience and the Emergence of Language as a Medium for Communication between God and Humans.' In D. Evers, M. Fuller, and A. Runehov (eds.), *Studies in Science and Theology*, 18, 45-57, Halle, Germany: Martin-Luther-University.

Johnson, P.E. 2012. 'Fountain Flow Cytometry,' *Current Protocols in Cytometry*, 60, 1.26.1-1.26.14.

Fini, J.B., Pallud-Mothré, S., Le Mével, S., Palmier, K. Havens, C., Garec, E., Le-Brun, M., Mataix, V., Demeneix, B.A., Turque, N., and Johnson, P.E. 2009. 'An Innovative Continuous Flow System for Monitoring Heavy Metal Pollution in Water Using Transgenic *Xenopus laevis* Tadpoles.' *Environmental Science & Technology*, 43 (23), 8895–8900.

Johnson, P.E., Havens, C.M., and Johnson, J.F. 2007. 'Real-Time, Low-Cost Detection of Individual Fungal Cells in Blood Using Fountain Flow Cytometry,' *Critical Care*, Volume 11 Suppl 4.

Johnson, P.E., Deromedi, A.J., Lebaron, P., Catala, P., Havens, C., and Pougnard, C. 2007. 'High Throughput, Real-Time Detection of Naegleria lovaniensis in Natural River Water using LED-illuminated Fountain Flow Cytometry,' J. Applied Microbiology, 103 (3), 700–710.

Johnson, P.E., Deromedi, A.J., Lebaron, P., Catala, P., and Cash, J. 2006. 'Rapid Detection and Enumeration of Escherichia coli in Aqueous Samples using Fountain Flow Cytometry,' *Cytometry*, 69A, 1212-1221.

Johnson, P.E., Watne, B., Shipman, R., and Cleavlin, C. 1994. 'Mid-Infrared Spectropolarimetry as a Remote Sensing Tool,' *J. Geophysical Research, Planets*, 99, E10, 21, 121-127.

Johnson, P.E., Vogler, K.J., and Gardner, J.P. 1993. 'The Effect of Surface Roughness on Lunar Thermal Emission Spectra,' *J. Geophysical Research*, 98, E11, 20,825-20,829.

Johnson, P.E., Smith, M.O. and Adams, J. 1991. 'Simple Algorithms for Remote Determination of Mineral Abundances and Particle Sizes from Reflectance Spectra,' *J. Geophysical Research, Planets*, 97, No. E2, 2649-2658.

Johnson, P.E., Smith, M.O., Taylor-George, S., and Adams, J.B. 1983. 'A Semi-Empirical Method for the Analysis of the Reflectance Spectra of Binary Mineral Mixtures,' *J. Geophysical Research*, 88, 3557-3561.

Johnson, P.E. 1982. 'Grain Alignment in the Galactic Magnetic Field,' *Nature*, 295, 371-375.