VITA

PETER WILLIAMS

Education:		
University of London, King's College University of London, King's College	B.Sc. (Chemistry) Ph.D. (Physical Chemistry)	1963 1966
Professional Experience		
Argonne National Laboratory, Physics D Research Associate	ivision	1966-67
University of Manitoba, Physics Dept. Faculty Associate		1967-73
Indiana University, Dept. of Chemistry Research Associate		1973-74
University of Illinois, Materials Research	ı Lab.	1074 70
Research Chemist		19/4-/8
and Analytical Chemistry Group	ace	1978-81
Arizona State University, Dept. of Chem Professor	istry	1981-present
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Honors, Awards and Service to the Profession	1:	
US Delegate, International Organizing C	ommittee,	2005
A SU Freshman Chemistry Teaching Awa	ard 1905	2003
Department of Chemistry Blankenship Te	eaching Award 2008	
DMSO Teaching Award (ASU SAACS (Chapter) 2016	

Service Activities

Intramural Service Current Departmental Assignments Chair, Graduate Programs Committee, 2009-present

Graduate Theses Mentored:

PhD: Richard Lareau, Steven Hues, Greg Gillen, Lori A. Streit, Ray-Chern Deng, Richard Alcorn, Randall Nelson, Stephen Schauer, Julie Pecore, David Schieltz, Chau-Wen Chou, Jennifer Krone, Kathleen Lewis, David Dogruel, Tommy Ashton III, Jennifer Firestine, Urban Kiernan, Eric Niederkofler, Raul Rivera, Richard Sobers, Jr., Teresa Gerrity, Adam Monroe, Jitao Zhang

M.S.: Cong-Wen Luo, Eileen Brown, Paul Oakey, Gideon Eckhouse, Christopher Kline, Miranda McFall, Jennifer Firestine,

Postdoctoral researchers:

Maitrayee Bose, Ph.D. Washington University (Asst. Prof., SESE starting August 2017)

US Patents (last 7 years) (19 total)

9,540,689 *Williams*, et al. January 10, 2017 Method of determining the nucleotide sequence of oligonucleotides and DNA molecules

9,458,500 *Williams*, et al. October 4, 2016 Method of determining the nucleotide sequence of oligonucleotides and DNA molecules

9,212,393 *Williams*, et al. December 15, 2015 Method of determining the nucleotide sequence of oligonucleotides and DNA molecules

9,096,898 *Williams*, et al. August 4, 2015 Method of determining the nucleotide sequence of oligonucleotides and DNA molecules

8,486,713 *Nelson* et. Al.July 16, 2013 Mass spectrometric immunoassay

8,263,365 *Williams*, et al. September 11, 2012 Method of determining the nucleotide sequence of oligonucleotides and DNA molecules

8,263,364 *Williams*, et al. September 11, 2012 Method of determining the nucleotide sequence of oligonucleotides and DNA molecules

8,216,514 *Williams*, et al. July 10, 2012 Method of determining the nucleotide sequence of Oligonucleotides and DNA molecules

7,875,440 *Williams* et al. January 2011 Method of determining the nucleotide sequence of oligonucleotides and DNA molecules

7,645,596 *Williams* et al. January 12, 2010 Method of determining the nucleotide sequence of oligonucleotides and DNA molecules

Publications (last 7 years):

- 139. "Identification at high mass resolution of the positive ion at m/z 19 produced by electron-stimulated desorption: F(+) (rather than H(3)O(+))" Williams P.; Franzreb K. J. Vac, Sci. Technol A 28 (2010) 622-624
- 140. "On the effect of oxygen flooding on the detection of noble gas ions in a SIMS instrument", P. Williams, K. Franzreb, R. C. Sobers Jr., and J. Lorincik: *Nucl. Instrum.Methods Phys. Res. B* **268** (2010), 2758.
- 141. "Negative ion yield and sputter yield variations for Cs(+) bombardment of Si with O(2) gas flooding" Franzreb K.; Williams P. *Surf. Interf. Anal.* **43**(2011) 129-133
- 142. "Testing of a Micro Faraday Cup Array for Ion Detection in SIMS" Lorincik Jan; Denton M. Bonner; Sperline Roger P., Williams, P; et al. Anal. Lett. 44 (2011) 1050-1057
- 143. "High dynamic range isotope ratio measurements using an analog electron multiplier", Williams, P., Lorincik, J., Franzreb, K., Hervig, R.L. Surf. Interface Anal. 45 549-552 (2013)
- 144. "Future Challenges and Prospects of Cluster SIMS", P Williams, CM Mahoney *Cluster Secondary Ion Mass Spectrometry: Principles and Applications*, CM Mahoney, Ed., John Wiley & Sons (2013) pp 313-327 (Invited chapter)
- 145. "Imaging with biomolecular ions generated by massive cluster impact in a time-of-flight secondary ion microscope", J Zhang, K Franzreb, P Williams, *Rapid Communications in Mass Spectrometry* 28, 2211-2216 (2014)
- 146. "Assessment of alteration processes on circumstellar and interstellar grains in Queen Alexandra Range 97416", M Bose, TJ Zega, P Williams, *Earth and Planetary Science Letters* 399, 128-138 (2014)
- 147. "Mass Spectra and Yields of Intact Charged Biomolecules Ejected by Massive Cluster Impact for Bioimaging in a Time-of-Flight Secondary Ion Microscope", J Zhang, K Franzreb, SA Aksyonov, P Williams, *Analytical chemistry* 87, 10779-10784 (2015))