Anthony J.A. Ouellette
904-256-7299 aouelle@ju.edu

I. Academic Positions

2018-present Professor of Biology and Chemistry, Departments of Chemistry and Biology and Marine Science, Jacksonville University, Jacksonville, FL

2016-2018 Professor of Biology, Department of Biology and Marine Science, Jacksonville University, Jacksonville, FL

2015-present Program Director, *The Science Of…*

2012-2016 Associate Professor of Biology, Department of Biology and Marine Science, Jacksonville University, Jacksonville, FL

2011-2015 Department Co-Chair (4.5 years)

2008-2012 Assistant Professor of Biology, Department of Biology and Marine Science, Jacksonville University, Jacksonville, FL

2003-2008 Assistant Professor, Department of Biological Sciences, SUNY-Oswego, Oswego NY

2002-2003 Postdoctoral Research Associate, Department of Microbiology and Center for Environmental Biotechnology, The University of Tennessee, Knoxville, TN
Advisor: Dr. Steven Wilhelm, Associate Professor of Microbiology
• *Molecular analysis of toxic cyanobacteria and other phytoplankton*

1995-2002 Graduate Research Assistant, Department of Biochemistry, Molecular Biology and Biophysics, University of Minnesota, St. Paul, MN

1994-1995 Research Assistant, Florida Solar Energy Center, University of Central Florida, Cocoa, FL
Advisor: Dr. Clovis Linkous, Senior Research Scientist
•*Photochemical water oxidation by semiconductors: towards a dual bed photosystem*
•*Use of semiconductor / cement preparations for inhibition of biofilm growth*

II. Education

1995-2002 University of Minnesota, St. Paul, MN
•**PhD in Biochemistry, Molecular Biology and Biophysics**, 2002
Advisor: Dr. Bridgette Barry, Currently Professor of Chemistry and Biochemistry at Georgia Institute of Technology
•*Characterization of light harvesting components and modified amino acids of photosystem II*

1993-1995 University of Central Florida, Orlando, FL
•**Bachelor of Science in Biology, Minor in Chemistry**, 1994

1992 University of Tampa, Tampa, FL

1990-1992 Valencia Community College, Orlando, FL
•**Associate of Arts**, 1992

1983-1987 Rogers High School, Newport, R.I.
•High School Diploma, 1987

III. Professional Memberships

2002-present American Society for Microbiology

1994-2008 American Chemical Society

2003-2004 Sigma XI, The Scientific Research Society

2002-2003 International Society for the Study of Harmful Algae

IV. Funding (>$720,000):

- 2015-2017 **$400,000**
  "St. Johns River Initiative" State of Florida Appropriations Contract
  P.I.: Quinton White, Co-P.I.s: Anthony J.A. Ouellette, Jeremy C. Stalker

- 2014-2015 **$2,200**
  JU Faculty Research Grant: Assessing liver and nerve toxins in the St. Johns River

- 2012-2013; 2010-2011 **$5,000**
  JU Faculty Research Grants: Collaborative Research; JU Faculty Research Grant: Cyanotoxin dynamics in the St. Johns River: a JU snapshot

- December 2006 **$53,530.00**
  Beckman Coulter Genomics Educational Research Matching Funds grant
  A gene sequencer was purchased for use in teaching and research
  P.I.: Amy B. Welsh
  Co-P.I.: Anthony J.A. Ouellette

- Fall 2006 **$2,500**
  SUNY-Oswego Student/Faculty Collaborative Challenge Grant
  "Elucidating microbial chemical interactions in aquatic environments"
  P.I.: Anthony J.A. Ouellette
  Co-P.I.: Anders Peterson (undergraduate student)

- Summer & Fall 2005 **$5,997.00**
  National Science Foundation Research Experience for Undergraduates (REU) Supplemental.
  This student worked on MALDI-TOF mass spectrometry for identifying microorganisms.
  P.I. Anthony J.A. Ouellette

- August 1 2004 - July 31, 2007 **$249,850.00**
  National Science Foundation, Major Research Instrumentation Program
  "Acquisition of Proteomics Equipment and a MALDI-TOF Mass Spectrometer for Establishment of a Proteomics/Mass Spectrometry Facility"
  P.I.: Anthony J.A. Ouellette
  Co-P.I.s: Kestutis Bendinskas, Martha Bruch, Webe Kadima, Casey C. Raymond
  Senior Personnel: J. Alden Lackey

- Summer & Fall 2004 **$1005.60**
  Rice Creek Associates Ninth Annual Small Grants Program
  "Rice Pond microorganisms: Genetic, metabolic, and morphological identification"
  P.I.: Anthony J.A. Ouellette

- Summer & Fall 2004 **$2000.00**
  SUNY-Oswego New Faculty Enhancement Grant
  "Molecular characterization of cyanobacterial communities and genetic detection of toxic Microcystis in Lake Ontario and Rice Creek"
  P.I.: Anthony J.A. Ouellette

V. Teaching: Courses taught

Jacksonville University (2008-present)

Biol 170 Introduction to Ecology and Evolution (with lab)
Biol 221 Nutrition
Biol 222 Microbiology for Health Professionals (with lab) [also online with lab]
Biol 301WR Microbiology (with lab)
Biol 314 Evolution
Biol 432 Teaching Assistant Practicum
Biol 425 / Che 425 Biochemistry, Genetics and Molecular Biology I (with lab)
Biol 426 / Che 426 Biochemistry, Genetics and Molecular Biology II (with lab)
Biol 430 / MSC 695 Environmental Microbiology (with lab)

SUNY-Oswego (2003-2008)

Bio120: Molecular and Cellular Foundations (with lab)
Bio 213: College Biology II (with lab)
Also Lab coordinator for 9 to10 lab sections per semester (Bio120 & 213)
Bio 301: Topics in Biotechnology
Bio 401 / Che 401: Proteomics (with lab) (Team-taught with Kestas Bendinskas)
Bio 439: Molecular Biology
Bio 492: Problems in Biotechnology (Capstone lab-based Research Course)
Bio 492: Problems in Toxic Algal Blooms (Capstone lab and field-based Research Course)

University of Tennessee

2002 Guest lecturer, Microbiology 470: Microbial Ecology

University of Minnesota

2001 Guest lecturer, Biochemistry 3960: Research Topics in Biochemistry
1998-1999 Supervised undergraduate research in laboratory of Professor Bridgette Barry
1998 Teaching Assistant, Biochemistry 8001: Protein Structure and Function
1997 Teaching Assistant, Biochemistry 5533: Molecular Biology of Gene Action

University of Central Florida

1994 Tutor, Organic Chemistry

VI. Oral Presentations by Research Students (Presenter in **bold**, undergraduate students are underlined)

- **Kyla Siemens** and Anthony Ouellette
"*Identifying Liver Toxins in Northeast Florida Algal Blooms Using MALDI-TOF Mass Spectrometry*"
Jacksonville University Symposium, Jacksonville, FL, 4/30, 2018

- **Janel Palomo** and Anthony Ouellette
"*Pathogenic Bacteria in the Sunshine State*"
National Conference on Undergraduate Research, Edmond, OK, 4/4-7, 2018

- **Kyla Siemens** and Anthony Ouellette
"*Identification of Liver Toxins in Northeast Florida Algal Blooms Using Mass Spectrometry*"
National Conference on Undergraduate Research, Edmond, OK, 4/4-7, 2018

- **Janel Palomo** and Anthony Ouellette
  "*Pathogenic Bacteria in a Changing River*"
  Florida Collegiate Honors Conference, Fort Myers, FL, 2/9-11, 2018

- **Janel Palomo** and Anthony Ouellette
  "Vibrio vulnificus *in the Timucuan Preserve*"
  7th Annual Timucuan Preserve Science and History Symposium, Jacksonville, FL, 1/26/2018

- **Kacey Talbot** and Anthony Ouellette
  "*Isolation and characterization of* Staphylococcus aureus *and other bacteria from local impaired waterways using MALDI-TOF mass spectrometry, real-time PCR, and phenotypic tests"*
  Reflections on Research, Jacksonville University, Jacksonville, FL, 4/28/16

- **Kacey Talbot** and Anthony Ouellette
  "Determining the Presence of Staph in Local Impaired Waterways"
  National Conference on Undergraduate Research, Asheville, NC, 4/7-9, 2016

- **Kacey Talbot** and Anthony Ouellette
  "Determining the Presence of Staph in Local Impaired Waterways"
  Florida Collegiate Honors Council, Gainesville, FL, 2/19-21, 2016

- **Rhea Derke** and Anthony Ouellette
  "Cyanobacterial Blooms: Chlorophyll, Toxins, and Genetics."
  Jacksonville University Faculty and Student Symposium, Jacksonville, FL, 4/8, 2015

- **Jacqueline Maxwell** and Anthony Ouellette
  "Pathogenic Vibrio in Oysters from St. Johns River Tributaries"
  Jacksonville University Faculty and Student Symposium, Jacksonville, FL, 4/8, 2015

- **Kacey Talbot** and Anthony Ouellette
  "Polymerase Chain Reaction: A Molecular Method for Evaluating Human Health Risks"
  Jacksonville University Faculty and Student Symposium, Jacksonville, FL, 4/8, 2015

- **David Borrelli** and Anthony Ouellette
  "Analysis of Anatoxin-a Concentrations in the Lower St. Johns River Basin using HPLC-FLD Determination"
  Jacksonville University Faculty and Student Symposium, Jacksonville, FL, 4/7, 2015

- **Jacqueline Maxwell** and Anthony Ouellette
  "Vibrio *in Jacksonville Tributary Oysters"*
  Florida Collegiate Honors Council, Miami, FL, 2/20-2/22, 2015

- **Rhea Derke** and Anthony Ouellette
  "Toxic Cyanobacterial Blooms in the Lower St. Johns River Basin"
  The American Society for Microbiology Southeastern Microbiology Summit
  Ponte Vedra Beach, FL, 9/6, 2014

- **Rhea Derke** and Anthony Ouellette
  "Toxic Algae in the Lower St. Johns River Basin"
  Jacksonville University Faculty and Student Symposium, Jacksonville, FL, 3/26, 2014

- **Sandria Vernon** and Anthony Ouellette
  "Unto the death: HPLC analysis of bacterial inhibitory molecules"
  Jacksonville University Faculty and Student Symposium, Jacksonville, FL, 4/5, 2013

- **Alissa Cowell** and Anthony Ouellette
  "Quantifying microcystin, a hepatotoxin, from the St. Johns River and adjacent tributaries"
  Jacksonville University Faculty and Student Symposium, Jacksonville, FL, 4/5, 2013

- **Alicia Gard-Kaminkow** and Anthony Ouellette
  "Molecular Analysis of Anthracene Degrading Bacterial Communities"
  Jacksonville University Faculty and Student Symposium, Jacksonville, FL, 3/14, 2012

- **Ashley Kohler, Shanda Larson**, Anthony Ouellette, and Lucy Sonnenberg
  "Anthracene degradation by sediment microbes from the St. Johns River"
  Jacksonville University Faculty and Student Symposium, Jacksonville, FL, 3/14, 2012

- **Tulsi Patel** and Anthony Ouellette
  "Vibrio in the St. Johns River"
  Jacksonville University Faculty and Student Symposium, Jacksonville, FL, 3/14, 2012

- **Chelsy Rowan** and Anthony Ouellette
  "Determining spoilage rate in fat free milk compared to whole milk."
  Jacksonville University Faculty and Student Symposium, Jacksonville, FL, 4/1, 2011

- **Benjamin Hixon** and Anthony Ouellette
  "Fecal Coliform Bacteria in different tributaries of the Saint Johns River."
  Jacksonville University Faculty and Student Symposium, Jacksonville, FL, 4/1, 2011

- **Robert Garland** and Anthony Ouellette
  "Menacing Microorganisms: A Study of Resistance in Dermatophytes."
  Jacksonville University Faculty and Student Symposium, Jacksonville, FL, 4/1, 2011

- **Gabriela Block** and Anthony Ouellette
  "Genetic identification of isolated aquatic bacteria using the 16S rDNA gene**"**
  Jacksonville University Faculty and Student Symposium, Jacksonville, FL, 4/2, 2010

- **Ayesha Patel** and Anthony Ouellette
  "Allelopathy & Identification of Bacteria**"**
  Jacksonville University Faculty and Student Symposium, Jacksonville, FL, 4/2, 2010

- **Frank Pierce** and Anthony Ouellette
  "Proteome analysis of toxic *Microcystis aeruginosa* by 2 dimensional gel and MALDI-ToF analysis"
  Great Lakes Research Consortium Student/Faculty Conference, Syracuse, NY 3/14-3/15, 2008
  *Frank won best talk in his category

- **Frank Pierce** and Anthony Ouellette
  "Identification of proteins isolated from *Microcystis aeruginosa* strain UTCC 299 by 2 dimensional gel and MALDI-ToF analysis**"**
  Quest 2008 (SUNY Oswego symposium to celebrate scholarly and creative activities)
  Oswego, NY, 4/18, 2007
  *Frank won best biology talk

- **Mark R. Hudson** and Anthony J. A. Ouellette
  "MALDI-TOF MS Spectra Reproducibility and Identification of Aquatic Bacteria at Rice Creek Fallbrook"
  Quest 2007 (SUNY Oswego symposium to celebrate scholarly and creative activities)
  Oswego, NY, 4/18, 2007

- **Anders D. Peterson** and Anthony J.A. Ouellette
  "Aquatic Bacterial Interactions"
  Quest 2007 (SUNY Oswego symposium to celebrate scholarly and creative activities)
  Oswego, NY, 4/18, 2007

- **John Merchant** and Anthony J.A. Ouellette
  "Proteomic Analysis of Toxic Algae Blooming in a Local Water Body"
  Quest 2006 (SUNY Oswego symposium to celebrate scholarly and creative activities)
  Oswego, NY, 4/19, 2006

- **Elizabeth Whitmore** and Anthony J.A. Ouellette
  "DNA Identification Methods: Name that DNA"
  Quest 2006 (SUNY Oswego symposium to celebrate scholarly and creative activities)
  Oswego, NY, 4/19, 2006

- **Elizabeth Kalisiak** and Anthony J.A. Ouellette
  "Genetic Identification of Microbial Communities Involved in the Reductive Dechlorination of PCBs"
  Quest 2004 (SUNY Oswego symposium to celebrate scholarly and creative activities)
  Oswego, NY, 4/21, 2004

VII. Poster Presentations by Students (Presenter in **bold**, undergraduate students are underlined)

- **Janel Palomo** and Anthony Ouellette
  "*Are* Vibrio vulnificus *in Oysters from the Timucuan Preserve Pathogenic?"*
  79th Annual Meeting of American Southeastern Biologists, Myrtle Beach, SC, 3/28-31, 2018

- **Shelby O'Brien** and Anthony Ouellette
  "The enumeration and identification of Vibrio in water and oyster tissue within Sisters Creek, FL"
  Southeastern Estuarine Research Society Semi-annual Meeting, Bluffton, SC, 3/10-3/12, 2016

- **John M. Merchant**, Anthony J. A. Ouellette
  "Ecophysiology of a Local Algal Bloom: Development of the Methods for a Proteomic Approach"
  American Society for Microbiology 107th General Meeting
  Toronto ON, 5/1- 5/25, 2007
  John received a competitive travel grant from the American Society for Microbiology to present.

- **A. D. Peterson**, A. J. A. Ouellette
  "An Evaluation of Microbial Interactions in Aquatic Environmental Isolates"
  American Society for Microbiology 107th General Meeting, Toronto ON, 5/1- 5/25, 2007

- **Mark R. Hudson**, Anders D. Peterson, John F. Heagerty and Anthony J. A. Ouellette
  "Characterizing and Identifying Bacteria Inhabiting Fallbrook at Rice Creek Field Station by MALDI-TOF MS and 16S rDNA Sequencing"
  Great Lakes Research Consortium Student/Faculty Conference, Syracuse, NY 3/14-3/15, 2007

- **Anders D. Peterson** and Anthony J.A. Ouellette
  "An Evaluation of Microbial Interactions in Aquatic Environmental Isolates"
  Great Lakes Research Consortium Student/Faculty Conference, Syracuse, NY 3/14-3/15, 2007

VIII. Research Students Mentored (26 total)

Jacksonville University

Undergraduate: Antonio Espinoza, Janel Palomo, Kyla Siemens, LaMar Jackson, Kacey Talbot, David Borrelli, Rhea Derke, Jacqueline Maxwell, Gabriela Block, Ayesha Patel, Ben Hixon, Robert Garland, Chelsy Rowan, Tulsi Patel, Alissa Cowell, Alicia Carter (Gard-Kaminkow), Sandria Vernon. **Graduate:** Shelby O'Brien (MS Marine Science).

SUNY-Oswego

Undergraduate: Casey Carpenter, Elizabeth Kalisiak (Recipient of a 2004 Scholarly and Creative Activity research grant), John Heagerty (currently Fisheries Biologist for NMFS), John Merchant (see below), Cody Spencer, Elizabeth Whitmore, Anders Peterson, Mark Hudson, Frank Pierce, Matthew Arthur. **Graduate:** John Merchant (MA Chemistry). **Post baccalaureate:** Jessica Miller

The University of Tennessee: Undergraduate: Sara Handy

IX. Media coverage

The Chat: As a guest, I explained microbiology topics on this live weekday television talk show.

- 8/11/16 Bacteria levels in Rio during Olympics
- 7/29/15 *Cryptosporidium* in pools
- 6/23/15 *Vibrio* bacteria and flesh eating disease
- 11/17/14 Microbes all around us II – showed and explained results of the bacterial tests
- 11/13/14 Microbes all around us I – included swabbing hosts' everyday items and growing bacteria
- 10/27/14 *Ebola*

News

- 9/18/18 First Coast News "Understanding the dangers surrounding red tide and toxic algae" https://www.firstcoastnews.com/article/news/understanding-the-dangers-surrounding-red-tide-and-toxic-algae/77-585398933
- 7/17/14 First Coast News "Flesh-eating bacteria found in St. Johns River"
- 7/16/14 **CNN (Aired Nationally)** "Deadly diseases lurking in U.S. waters" https://www.youtube.com/watch?v=fuWtK3TKxNU
- 7/16/14 "Flesh-eating bacteria in river; experts say caution, not panic, right approach" http://jacksonville.com/news/metro/2014-07-16/story/flesh-eating-bacteria-river-experts-say-caution-not-panic-right-approach
- 7/14/14 Action News "St. Johns River tests positive for flesh-eating bacteria" http://www.actionnewsjax.com/news/news/local/results-are-st-johns-flesh-eating-bacteria-test/ngfb5/#sthash.E7nSszCe.dpuf
- 7/2/14 Action News "JU Students test St. Johns River for dangerous bacteria" http://www.actionnewsjax.com/news/news/local/ju-students-test-st-johns-river-dangerous-bacteria/ngYF3/
- 7/2/14 **Front page story** "A Hunt For Flesh Eaters" (July 1 online version: http://jacksonville.com/news/health-and-fitness/2014-07-01/story/jacksonville-university-students-sample-river-water-looking)

Newspaper article by Ouellette
Anthony Ouellette
"JU, local institutions to produce 'Science of…' educational video series"
March 20, 2017
The Times Union – cover page of the 'life' section
Also online through newspaper, and the full version of the article at waveonline

X. Oral Presentations by Ouellette

Andy Ouellette
"When Ideology and Misinformation Trump Science"
"I'm No Expert, But…"American Anti-intellectualism
College of Arts and Sciences Panel Discussion
Jacksonville University, March 1, 2016

Andy Ouellette
"From Yellow Fever to Ebola: Disease and Fear Mongering"
The Walking Dread: Society, Plague, and Zombies
College of Arts and Sciences Panel Discussion
Jacksonville University, Feb. 24, 2015

Andy Ouellette
"Creationism Is Not Science (& Neither is Intelligent Design)"
Darwin Week Science and Engineering Lecture Series
Jacksonville University, Feb. 13, 2014

Andy Ouellette
"Molecular Biology / Gene Sequence Analysis and Human Origins"
Darwin Week Evolution 101 panel: *How different disciplines contribute to the theory of evolution*
Jacksonville University, Feb. 10, 2014

Andy Ouellette
"**I love microbes! And now I will tell you why…"**
St. Joseph Academy Catholic High School, St. Augustine, Florida, November 26, 2012

Anthony Ouellette
"**Creation Science: An Assault on Reason**?"
Philosophy Slam, Jacksons Grill, Jacksonville, FL, Sep 27, 2011

Andy Ouellette
"Marine Microbiology and the interdisciplinary nature of being a biologist"
St. Joseph Academy Catholic High School, St. Augustine, Florida, Sep. 20, 2011

Andy Ouellette
"Evolution: The unifying theory of biology"
Duval County Public Schools Science Pre-planning Meeting, Mandarin High School, Aug. 17, 2011

Andy Ouellette
"DNA profiling and a Universal DNA database"
Complicity & Resistance in a Controlled Society
College of Arts and Sciences Panel Discussion
Jacksonville University, Feb. 17, 2011

A.J.A. Ouellette
"**Marine Microbiology**"
Marine Science Seminar Series, Jacksonville University, December 12, 2010.

A.J.A. Ouellette
"**Evolution, Creation "Science", and Intelligent Design**"
Science and Engineering Lecture Series, Jacksonville University, April 9, 2009.

A.J.A. Ouellette
"**Genotype to phenotype: Molecular Tools to Study Microorganisms**"
Biology Department, Clarkson University, Potsdam, NY, April 15, 2005

A.J.A. Ouellette
"**Toxic Cyanobacteria in the Great Lakes**"
Science Today seminar, SUNY-Oswego, Dec. 3, 2003

A.J.A. Ouellette, M.F. Satchwell, E.T. Howell, G.L. Boyer, and S.W. Wilhelm
"**PCR Methods to Detect and Quantify Toxic *Microcystis*: Applications in Lakes Erie and Ontario**"
Great Lakes Research Consortium Student/Faculty Conference, Syracuse, NY 3/14-3/15, 2003

A.J.A. Ouellette, S. Handy, M. Satchwell, G.L. Boyer, and S.W. Wilhelm
"**Quantitative PCR and sequence analysis for determination of microbial community structure and the detection of toxic *Microcystis* in Lake Erie**"
10th International Conference on Harmful Algae, St. Pete Beach, FL 10/21-10/25, 2002

A.J.A. Ouellette
"**Evidence for a novel modified amino acid within the oxygen-evolving complex of photosytem II**"
Botany Department seminar, University of Tennessee, Knoxville, TN 10/7, 2002

A.J.A. Ouellette
"**Modified amino acids of photosystem II**"
Plant Molecular Genetics Institute, University of Minnesota, Saint Paul, MN Fall 2001.

A.J.A. Ouellette, L.B. Anderson, and B.A. Barry
"**Using primary amines to probe the catalytic site for photosynthetic water oxidation**"
Gordon Research Conference: Graduate Research Seminar: Biological Inorganic Chemistry
Ventura, CA 1/28-1/31 1999.

A.J.A. Ouellette, L.B. Anderson, and B.A. Barry
"**Covalent binding and oxidation of amines by photosystem II**"
Biochemistry, Molecular Biology, and Biophysics Departmental Retreat, Itasca, MN 9/10-9/12 1999.

A.J.A. Ouellette, L.B. Anderson, and B.A. Barry
"**Amine binding and oxidation at the catalytic site for photosynthetic water oxidation**"
The 24th Annual Midwest Photosynthesis Meeting, Marshall, IN 10/25-10/27, 1998.

XI. Poster Presentations by Ouellette (undergraduate students are underlined)

- Mark R. Hudson, Anders D. Peterson, John F. Heagerty and Anthony J. A. Ouellette
  "**Whole Cell Mass Spectrometry for Identification of Environmental Isolates**"
  American Society for Microbiology 107th General Meeting, Toronto ON, 5/1- 5/25, 2007

- A.J.A. Ouellette and B.A. Barry
  "**Tandem mass spectrometric identification of spinach photosystem II light harvesting components**"
  The 27th Annual Midwest Photosynthesis Meeting, Marshall, IN 10/28-10/30, 2001

- A.J.A. Ouellette, L.G. Hays, L.B. Anderson, J.R. Yates III, and B.A. Barry
  "**Covalent binding and oxidation of amines by photosystem II: Is there a quinocofactor at the catalytic site for water oxidation?**"
  The 9th International Conference of Biological Inorganic Chemistry, Minneapolis, MN 7/11-7/16 1999.

XII. Peer Reviewed Publications

A.J.A. Ouellette, S. M. Handy, and S.W. Wilhelm (2006)
"Toxic *Microcystis* is widespread in Lake Erie: PCR detection of toxin genes and molecular characterization of associated microbial communities."
Microbial Ecology **51**: 154-165.

J.M Rinta-Kanto, **A.J.A. Ouellette**, M.R. Twiss, G.L. Boyer, T. Bridgeman, and S.W. Wilhelm (2005)
"Quantification of toxic *Microcystis* spp. during the 2003 and 2004 blooms in Western Lake Erie"
Environmental Science & Technology **39:** 4198-4205.

L.B. Anderson, **A.J.A. Ouellette**, J. Eaton-Rye, M. Maderia, M. J. MacCoss, J.R. Yates III, and B.A. Barry (2004) "Evidence for a Post-Translational Modification, Aspartyl Aldehyde, in a Photosynthetic Membrane Protein" *Journal of the American Chemical Society* **126**: 8399-8405.

A.J.A. Ouellette and S.W. Wilhelm (2003)
"Toxic cyanobacterial identification and ecology: the evolving molecular toolbox"
Frontiers in Ecology and the Environment **1**: 359–366.

L.B. Anderson, M. Maderia, **A.J.A. Ouellette**, C. Putnam-Evans, L. Higgins, T. Krick, M. MacCoss, H. Lim, J.R. Yates III, and B.A. Barry (2002)
"Posttranslational modifications in the CP43 subunit of photosystem II"
Proceedings of the National Academy of Sciences **99**: 14676-14681.

A.J.A. Ouellette and B.A. Barry (2002)
"Tandem mass spectrometric identification of spinach Photosystem II light-harvesting components"
Photosynthesis Research **72**: 159-173.

C.A. Linkous, G.J. Carter, D.B. Locuson, **A.J. Ouellette**, D.K. Slattery, and L.A. Smitha (2000)
"Photocatalytic inhibition of algae growth using TiO_2, WO_3, and cocatalyst modifications"
Environmental Science and Technology **34**: 4754-4758.

L.B. Anderson, **A.J.A. Ouellette**, and B.A. Barry (2000)
"Probing the structure of photosystem II with amines and phenylhydrazine"
Journal of Biological Chemistry **275**: 4920-4927.

A.J.A. Ouellette, L.B. Anderson, and B.A. Barry (1998)
"Amine binding and oxidation at the catalytic site for photosynthetic water oxidation"
Proceedings of the National Academy of Sciences U.S.A. **95**: 2204-2209.

XIII. Other Publications

A. Ouellette (2015 - 2018) Section 2.4 "Algal Blooms" of State of the Lower St. Johns River Report
A. Ouellette (2017 - 2018) Section 2.6 "Bacteria (Fecal Coliform)" of State of the Lower St. Johns River Report

S.W. Wilhelm**, A.J.A. Ouellette,** and J.M Rinta-Kanto (2007)
"Development of Molecular Reporters for *Microcystis* Activity and Toxicity [Project #2818]"
This is an AWWA Research Foundation Project Report.

C.A. Linkous, D.K. Slattery, **A.J.A. Ouellette**, G.T. McKaige, and B.C.N. Austin (1996)
"Solar photocatalytic H_2 from water using a dual bed photosystem"
Hydrogen Energy Progress XI: Proceedings of the 11th World Hydrogen Energy Conference: 2545-2550.

XIV. Service

University-Wide

Jacksonville University:

2016	Strategic Planning Committee, Co-curricular / athletics working group member
2014	Provost/Chief Academic Officer Search committee member
2014	Academic Integrity committee member
2010 & 2011	Common Reading Faculty Member
2011	Faculty Marshall for Spring Commencement

SUNY Oswego:

2004-2008	**Director**, Mass Spectrometry and Proteomics Center
2006-2008	Member, SUNY Oswego Undergraduate Curriculum Council (**Chair** of Council for 2007-2008)
2007-2008	Faculty Assembly Representative for Department of Biological Sciences
2007-2008	Member, Faculty Assembly Executive Board
2004-2005	**Chair**, Equipment Subcommittee of the Science Planning Committee

Departmental

Jacksonville University:

Faculty Search committees – chair thrice, member once – 5 faculty hires

2010-2015 Department website updates

2009-2011 Science Math and Engineering Day interdisciplinary planning committee member

SUNY Oswego:

2004-2007 Member, Biology Department Curriculum Committee (3 one-year terms) (**Chair** of committee for 2005-2006)

2005-2006 Member, Biology Department Personnel Committee

2004-2005 Member, Biology Department Budget Committee

For the profession

2015-2016 **Member**, Lower St. Johns Basin Working Group for the Florida Department of Environmental Protection

2015 **Advisory Panel** for the National Oceanic and Atmospheric Administration, which included reviewing >14 grant proposals and a 2 day panel meeting in Silver Springs MD.

2013-2014 Bacterial Technical **Advisory Committee member** for the Florida Department of Environmental Protection

2012 **Advisory Panel** for the National Oceanic and Atmospheric Administration, which included reviewing >10 grant proposals and a 2 day panel meeting in Silver Springs MD.

2011 **Ad hoc reviewer** for the journal Water Research

2011 **Grant Reviewer** for The National Oceanic and Atmospheric Administration *Center for Sponsored Coastal Ocean Research* program: 2 proposals

2010 **Ad hoc reviewer** for Theory in Bioscience

2010 **Book reviewer** for Bedford St. Martins *Writing Papers in the Biological Sciences*

2009 **Textbook Reviewer** for Oxford University Press. *Molecular Biology: Principles of Genome Function. Chapter 9: Translation*

2008 **Grant Reviewer** for the National Science Foundation: *Major Research Instrumentation* Program

2006 **Ad hoc reviewer** for the following journals: Environmental Science and Technology; Aquatic Microbial Ecology

2006 **Grant Reviewer** for the National Science Foundation: *Microbial Observatories/Microbial Interactions and Processes* program

2005 Served on the *Major Research Instrumentation* **Advisory Panel** for the National Science Foundation, which included the reviewing of 14 grant proposals and a 3 day panel meeting in Arlington Virginia.

2005 **Grant reviewer** for *The Cooperative Institute for Coastal and Estuarine Environmental Technology*

2005 **Grant reviewer** for The Netherlands Organisation for Scientific Research (NWO) Earth and Life Sciences Program: *Geo-biology including ecology and environmental change*

2004 **Grant Reviewer** for The National Science Foundation: *Microbial Observatories/Microbial Interactions and Processes* program

2004 **Ad hoc reviewer** for the following journals:
Limnology and Oceanography Methods: Environmental Science & Technology

For the community

2015 Two undergraduates and I constructed Microbial Fuel Cells from Zoo animal feces and showed them off and explained them at the Florida Stem & Health Expo at River City Science Academy.

2011 Led a JU Philosophy Slam discussion on Creation Science at Jacksons Grill

2011 Gave oral presentation explaining the evidence for evolution to Duval County High School Biology Teachers during the Duval County Science In service Day.

2011 Gave a talk to 4 classes at Saint Joseph Academy (>100 students) highlighting Marine Microbiology and Biology as interdisciplinary sciences.

2011 **Instructor**, AP Biotechnology Labs for 2 classes from Terry Parker High. Hosted 46 students on campus over 2 days, 5 hours each day.

2011 Science Fair **Advisor:** Assisted Michaiah Ward (5th grade) with her project "Is your mouth cleaner than a dogs?"

2011 **Judge**, James Weldon Johnson College Prep School Science Fair

2008&2009 Science Fair **Mentor**: Mentored William Leeser fall 2008 and fall 2009 (10th and 11th grade student at Bolles), for his Science Fair project dealing with the "Effects of wasabi and wasabi substitutes on the growth of *E. coli*". This included substantial lab work in the JU microbiology lab, and William advanced to the Regionals both years.

2002 Identified pond algae for local community group (Lions Club)

2000 **Judge**, Twin Cities Regional Science Fair, oral and poster presentations
- Also served as the special awards judge

1999-2000 **Colearner**, ScienceWorks!

1999 **Judge**, Twin Cities Regional Science Fair, oral and poster presentations

XV. Professional development courses / workshops / learning communities attended

iDplus Performance Training Course
Shimadzu Applications Specialist came to campus to train me on MALDI-TOF
Jacksonville University, Jacksonville FL, September 21-25, 2015

Summer Institute
The Alan Alda Center for Communicating Science, Stony Brook University.
Stony Brook NY, June 8-12, 2015

Pre-tenured Faculty Learning Community
Marilyn Repsher Center for Teaching and Learning, Jacksonville University
Jacksonville FL, spring 2011

Designing for Interactive & Creative E-Learning
Marilyn Repsher Center for Teaching and Learning, Jacksonville University
Jacksonville FL, spring 2011

First Year @ JU Faculty Learning Community
Marilyn Repsher Center for Teaching and Learning, Jacksonville University
Jacksonville FL, spring 2009

Proteomics Informatics Course
NHLBI Seattle Proteomics Center, The Institute for Systems Biology
Seattle WA, October 16-20, 2006

Proteomics Workshop
University of Minnesota
St. Paul MN, June 13-15, 2006

XVI. Awards and Honors

2007 Award of Excellence, SUNY Oswego Research and Sponsored Programs
2001 Best Graduate Student Poster, The 27th Annual Midwest Photosynthesis Meeting ($100)
2000 Thomas Reid Award, University of Minnesota ($1000)
- To recognize novelty and innovation in graduate research

1999 Travel Fellowship, University of Minnesota ($250)
1998 Best Graduate Student Talk, The 24th Annual Midwest Photosynthesis Meeting ($100)
1992 Honors Certificate, Valencia Community College

XVII. Scholarships and Fellowships

2000-2001 Plant Molecular Genetics Institute Doctoral Dissertation Fellow, University of MN
1998-2000 National Institutes of Health Molecular Biophysics Fellow, University of Minnesota
1992 University of Tampa Honors Scholarship, University of Tampa