

ABET FACULTY VITAE (2 Page)

Name: Olya Keen

Education:

- Ph.D., Civil Engineering, University of Colorado-Boulder, 2012
- M.S., Environmental Engineering, University of South Florida, 2008
- B.S., Civil Engineering, University of South Florida, 2008

Academic Experience:

- UNC Charlotte, Assistant Professor, July 2013 – Present, Full-Time
- UNC Charlotte, Visiting Assistant Professor, January 2013 – June 2013, Full-Time

Non-Academic Experience:

- Waterline Construction, Inc., AutoCAD Drafter and Environmental Permitting Specialist, April 2005 – January 2007, Part-Time

Certifications or Professional Registrations:

- E.I., State of Florida, License No. 1100015412
- Certificate in College Teaching from Graduate Teacher Program at CU Boulder

Current Membership in Professional Organizations:

- International Ultraviolet Association (IUVA), April 2012 – Present
- International Water Association (IWA), May 2011 – Present
- Water Environment Federation (WEF), February 2011 – Present
- American Chemical Society (ACS), January 2010 – Present
- American Water Works Association (AWWA), September 2007 – Present

Honors and Awards:

- Best UV Paper of the Year Award by International Ultraviolet Association, 2013
- Best Student Presentation at IUVA World Congress, 2013
- ACS Graduate Student Award in Environmental Chemistry, 2011
- EPA STAR Fellowship, 2010-2012
- Outstanding Graduate Award, 2008

Service Activities (Within and Outside of the Institution):

- Conference Organizer for International Ultraviolet Association Americas Regional Meeting, White Plains, NY, October 26-28, 2014
- Committee Service: UNCC CEE Department: Graduate Committee, Laboratory/Writing (Chair since October 2014); Strategic Planning; UNCC College of Engineering: Advisor For Society of Women Engineers; Safety Committee.
- Chair of Organic Contaminants Research Committee for American Waterworks Association

Select Publications and Presentations (Last Five Years):

1. Keen, O.S., Love, N.G., Aga, D.S. and Linden, K.G. (2015) Biodegradability of Iopromide Products After UV/H₂O₂ Advanced Oxidation. *Chemosphere* 144, 989-994
2. Keen, O.S., Bell, K.Y., Cherchi, C., Finnegan, B.J., Mauter, M.S., Parker, A.M., Rosenblum, J.S., Stretz, H.A. (2014) Emerging Pollutants – Part II: Treatment. *Water Environment Research* 86(10), 2036-2096
3. Keen, O.S., Thurman, E.M., Ferrer, I. and Linden, K.G. (2014) Susceptibility of Lamotrigine to Degradation by Hydroxyl Radicals, Ozone and Direct Photolysis in UVC Range. *Chemosphere* 117, 316-323
4. Keen, O.S., McKay, G., Mezyk, S.P., Linden, K.G. and Rosario-Ortiz, F. (2014) Identifying The Factors That Influence The Reactivity Of Effluent Organic Matter With Hydroxyl Radicals. *Water Research* 50(1), 408-419
5. Keen, O.S. and Linden, K.G. (2013) Degradation of Antibiotic Activity during UV/H₂O₂ Advanced Oxidation and Photolysis in Wastewater Effluent. *Environmental Science and Technology* 47(22), 13020-13030
6. Keen, O.S., Thurman, E.M., Ferrer, I., Dotson, A.D. and Linden, K.G. (2013) Mechanism of Dimer Formation during UV Photolysis of Diclofenac. *Chemosphere* 93(9), 1948-1956
7. Keen, O.S. and Linden, K.G. (2013) Re-Engineering Artificial Sweetener: Transforming Sucralose Residuals in Water via Advanced Oxidation. *Environmental Science and Technology*, Special Issue honoring Rene Schwarzenbach 47(13), 6799-6805
8. Keen, O.S., Dotson, A.D. and Linden, K.G. (2013) Evaluation Of Hydrogen Peroxide Quenching Methods Following An Advanced Oxidation Process. *ASCE Journal of Environmental Engineering* 139(1), 137-140
9. Keen, O.S., Love, N.G. and Linden, K.G. (2012) The Role Of Effluent Nitrate In Trace Organic Chemical Oxidation During UV Disinfection. *Water Research* 46(16), 5224-5234
10. Keen, O.S., Baik, S., Linden, K.G., Aga, D.S. and Love, N.G. (2012) Enhanced Biodegradation Of Carbamazepine After UV/H₂O₂ Advanced Oxidation. *Environmental Science and Technology* 46(11), 6222-6227

Recent Professional Development Activities:

- Co-PI, MRI: HPLC/ESI-MS System For Analysis Of Strategic Chemical Species, National Science Foundation, July 2013 – June 2016
- PI, Transformation Of Antibiotic Doxycycline During Chlorination Of Wastewater, UNCC Faculty Research Grant, January 2014 – May 2015
- PI, Developing A Treatment Procedure For Hydraulic Fracturing Flowback Wastewater, EPIC Associates Undergraduate Research Assistantship, 2014
- PI, Total Organic Carbon Testing Services, City of Charlotte, July 2015 – June 2016
- PI, Application Of Fenton's Process For Treatment Of Biorecalcitrant UV Absorbing Organics In Landfill Leachate, Civil and Environmental Consultants, Inc., August 2013 – January 2014
- Attendee and Conference co-Chair, IUVA Annual Meeting, White Plains, NY, October 2014
- Invited Speaker, Remote Laboratory Technology Day, Duke Water Treatment Plant, August 2015
- Workshop Attendee, NSF Grant Writing, NC Kannapolis Research Campus, April 2013