

Amberlie A. Clutterbuck

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Contact

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Professional

Joseph A. Caruso Research Group
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Research Interests

Tobacco & tobacco-alternatives, flavors & fragrances, food chemistry, environmental chemistry, method development

Education

2012 – present	Ph.D. candidate in Chemistry	University of Cincinnati, OH
2008 – 2012	B.S. cum laude Majoring in Chemistry Minor (A.A.) in Biology	Thomas More College, KY

Experience in Chemistry

2012 – present	Teaching Assistant Courses taught: General chemistry recitation & lab, Instrumentation lab	University of Cincinnati, OH
2010 – 2012	Undergraduate Research <i>Linking honey bee (<i>Apis mellifera</i>) preference for native or invasive flowering trees via VOC identification using GC-MS</i>	Thomas More College, KY

Honors & Awards

05/2015	UC Research Spotlight Featured article on research	University of Cincinnati, OH
04/2013	Henry Hochstetter Prize Excellence in teaching	University of Cincinnati, OH
04/2012	Kiki Magazine Featured article on women in STEM	Thomas More College, KY
04/2011	Dr. Anthony R. Zembrodt Scholarship Excellence in research	Thomas More College, KY

Invited talks

- 2015 Clutterbuck, A.A., Saadawi, R., Landero-Figueroa, J., Caruso, J.A., Wetzel, W.C. *Up in Smoke: Myths About Hookah, Debunked: Investigation into Hookah Tobacco and Tobacco Alternatives*. Thomas More College, Crestview Hills, KY. 2015.
- Caruso, J.A., Saadawi, R., Clutterbuck, A.A., Cast, D., Landero-Figueroa, J., Wetzel, W.C., Hachmöller, O., Winfough, M., Hanley, T. *Alternative Smoking Paradigms - Hookah & E-Cigs: An Analytical Point of View*. 47th European Winter Conference on Plasma Spectrochemistry, Münster, Germany. 2015.
- 2014 Caruso, J.A., Saadawi, R., Clutterbuck, A.A., Landero-Figueroa, J., Wetzel, W.C., Hachmöller, O., Winfough, M., Hanley, T. *Hookah Smoking - Toxic Metal Epidemic in Western Culture?*. 13th Rio Symposium on Atomic Spectrometry, Mérida, Yucatán, Mexico. 2014.

Paper presentations

- 2015 Clutterbuck, A.A., Caruso, J.A., Wetzel, W.C. *Identification of Hookah Tobacco Volatiles Via SPME-GC-MS: Investigation into Hookah Tobacco and Tobacco Alternatives*. 65th Annual Pittsburgh Conference (PittCon), New Orleans, LA. 2015.
- 2014 Clutterbuck, A.A., Saadawi, R., Landero-Figueroa, J., Caruso, J.A. *An Investigation into the Hookah Tobacco Alternative, Shisha Steam Stones, Using ICP-MS*. 41st Annual Great Scientific Exchange (SciX), Reno, NV. 2014.
- 2011 Clutterbuck, A.A., Wetzel, W.C. *Methods For Separation & Identification of Volatile Oils in Bradford Pear Blossoms by GC-MS*. 21st Annual Argonne National Laboratory's Symposium for Undergraduates in Science, Engineering, & Mathematics, Argonne, IL. 2011.

Poster presentations

- 2015 Black, L.L., Wetzel, W.C., Clutterbuck, A.A., Caruso, J.A. *Trace Metal Analysis of Brood XIV Periodical Cicadas by ICP-AES and ICP-MS*. 27th Annual Butler University Undergraduate Research Conference, Indianapolis, IN. 2015.
- 2014 Clutterbuck, A.A., Caruso, J.A., Wetzel, W.C. *Development of a Micro-Cold Vacuum Trap for Hookah Smoke Analysis with SPME-GC-MS*. 34th Annual Oesper Symposium, Cincinnati, OH. 2014.
- Clutterbuck, A.A., Caruso, J.A., Wetzel, W.C. *Development of a Micro-Cold Vacuum Trap for Hookah Smoke Analysis with SPME-GC-MS*. 41st Annual Great Scientific Exchange (SciX) Society for Applied Spectroscopy Poster Forum, Reno, NV. 2014.
- Clutterbuck, A.A., Saadawi, R., Landero-Figueroa, J., Caruso, J.A. *The Qualitative Identification of Metals in Shisha Steam Stones Using ICP-MS: Extraction of Metals from Un-Smoked and Smoked Hookah Steam Stones*. University of Cincinnati Graduate Student Expo & Poster Forum, Cincinnati, OH. 2014.

Clutterbuck, A.A., Saadawi, R., Landero-Figueroa, J., Caruso, J.A. *The Qualitative Identification of Metals in Shisha Steam Stones Using ICP-MS: Extraction of Metals from Un-Smoked and Smoked Hookah Steam Stones*. 46th Annual Winter Conference on Plasma Spectrochemistry, Amelia Island, FL. 2014.

2013

Clutterbuck, A.A., Saadawi, R., Landero-Figueroa, J., Caruso, J.A. *The Qualitative Identification of Metals in Shisha Steam Stones Using ICP-MS*. 33rd Annual Oesper Symposium, Cincinnati, OH. 2013.

Clutterbuck, A.A., Saadawi, R., Landero-Figueroa, J., Caruso, J.A. *The Qualitative Identification of Metals in Shisha Steam Stones Using ICP-MS*. 40th Annual Great Scientific Exchange (SciX), Milwaukee, WI. 2013.

Clutterbuck, A.A., Saadawi, R., Landero-Figueroa, J., Caruso, J.A. *The Qualitative Identification of Metals in Shisha Steam Stones Using ICP-MS*. 40th Annual Great Scientific Exchange (SciX) Society for Applied Spectroscopy Poster Forum, Milwaukee, WI. 2013.

Daley, J., Clutterbuck, A.A., Wetzel, W.C. *Construction and Utilization of a Y-Tube Olfactometer to Determine Honeybee Preferences*. 2013 ACS Central Regional Meeting, Mount Pleasant, MI. 2013.

Media appearances

2015

Plackett, Benjamin. "Steam Stones Safer Than Hookah, But Only If You Smoke Them Right." *Inside Science* 27 May 2015. Web.

Saker, Anne. "UC study: Hookah steam stones are toxic, too." *Cincinnati Enquirer* 26 May 2015. Print & Web.

Thompson, Ann. "Report: hookah steam stones contain cancer-causing elements." *WVXU Radio* 12 May 2015. Radio & Web.

Pearson, Erica. "Hookah 'steam stones' contain potentially toxic metals: study." *New York Daily News* 11 May 2015. Web.

Fuller, Dawn. "Researchers Examine the Dangers Bubbling Up from Hookah Steam Stones." *UC Research Spotlight* 11 May 2015. Web.

Publications

2015

A. Clutterbuck, R. Saadawi, J. A. Caruso, J. Landero-Figueroa, *Microchem. J.*, **122** (205)

Additional Expertise

Solid-phase micro-extraction (SPME), GC, HPLC, AA, ICP-AES, ICP-MS, GC-MS, IR, Microwave digestion, PAH analysis

Societies

- 2013 – present **American Chemical Society**
- 2013 – present **Association for Women in Science**
- 2013 – present **Society for Applied Spectroscopy**

Service

- 2015 – 2016 **Chemistry Graduate Student Association** University of Cincinnati, OH
Served as Treasurer
- 07/2014 **Kiki Live 2.0** Local event
Created and presented a chemistry of textiles lab to girls ages 10-14
- 05/2014 **Tree Planting at Burnett Woods** Center for Community Engagement, University of Cincinnati, OH
Planted trees
- 10/2013 **National Chemistry Weekend at the Museum Center** Local event
Taught local children about chemistry through a series of demonstrations
- 2011 – 2012 **Chemistry Club** Thomas More College, KY
Served as President
- 2010 – 2013 **Science and Engineering Fair of Northern Kentucky (SEFNK)** Highland Heights, KY
Served as science fair judge