



ACS
Chemistry for Life®

**OCACS Environmental Group
Bimonthly Presentation**

**Environmental Application and Implication
of Nanotechnology**

Dr. Adeyemi Adeleye
**Assistant Professor, Department of Civil and
Environmental Engineering, University of
California, Irvine**

Thursday, March 28th, 2019 at 7:30 pm

Biography

Adeyemi Adeleye earned master's and doctoral degrees from UC Santa Barbara (UCSB) in environmental science and management; and joined UC Irvine's civil and environmental engineering department in July 2018. He previously served as a National Research Council postdoctoral research associate at the U.S. Environmental Protection Agency and as a postdoctoral scholar at UCSB's Center for Environmental Implications of Nanotechnology. Adeleye's research focuses on emerging contaminants as well as the environmental applications of nanotechnology. Adeleye is a member of the American Chemical Society, the Society of Environmental Toxicology and Chemistry, and the Sustainable Nanotechnology Organization.



Abstract

Nanotechnology, the manipulation of matter at the nanoscale, can contribute to environmental sustainability via applications that can

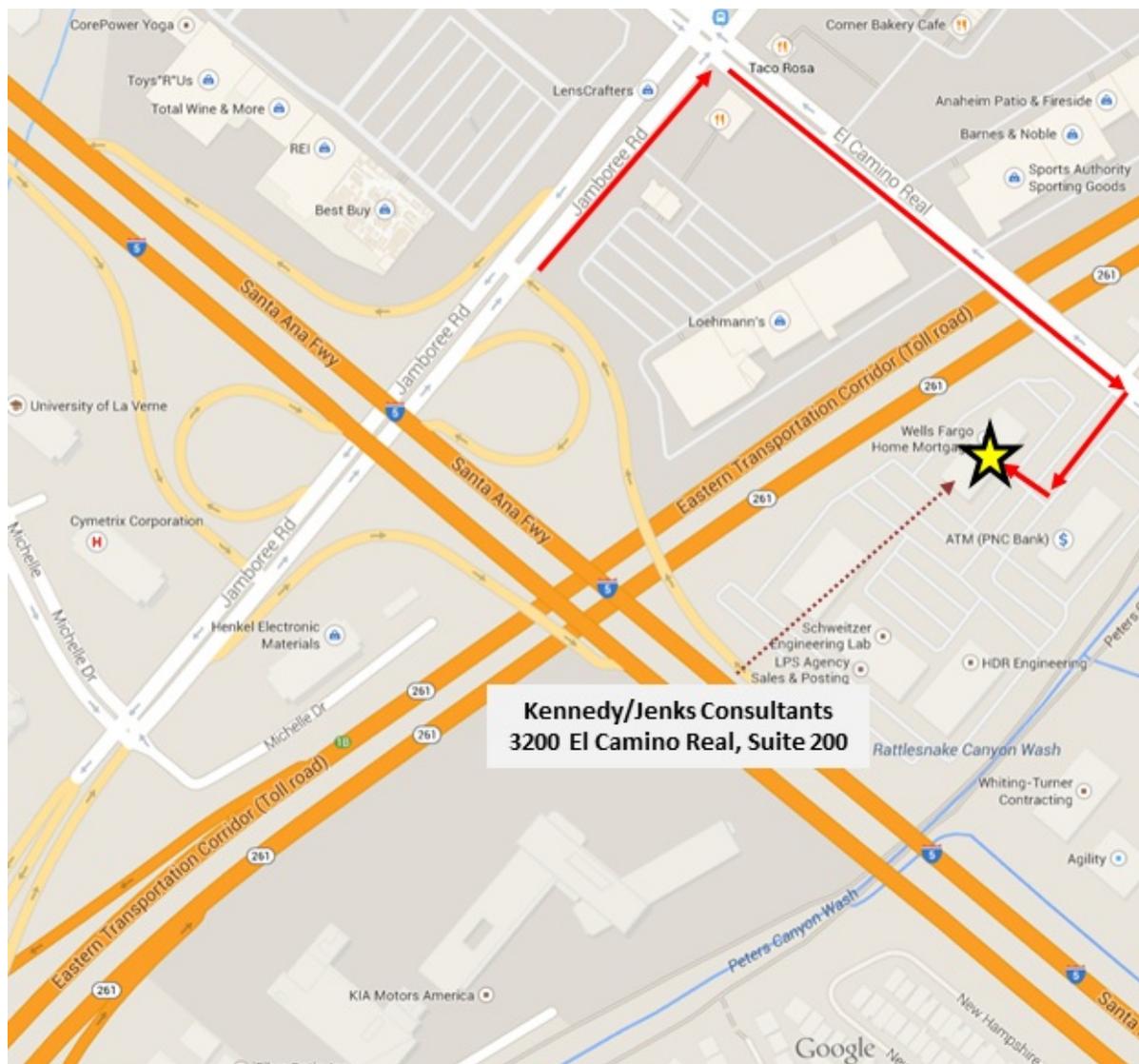
improve energy storage, water treatment and pollution remediation, among others. However, nanotechnology applications may lead to release of engineered nanomaterials into the natural environment, and the implications of this exposure are poorly understood. This seminar will focus on the application of nanoscale zerovalent iron (nZVI) for heavy metal removal, showing how the engineered nanomaterial can be modified to improve its performance. The influence of biogeochemical parameters on the transformation and toxic effects of nZVI will be considered, with the goal of improving the sustainable application of nZVI for environmental remediation.

Location

Kennedy/Jenks Consultants, 3200 El Camino Real, Suite 200, Irvine, CA 92602

To Register or for more information

Contact Dr. Ganesh Rajagopalan at RGanesh@KennedyJenks.com by Tuesday, March 26th, 2019.



6 C Carbon 12.0107	1 H Hydrogen 1.00794	99 Es Einsteinium (252)
12 Mg Magnesium 24.3050	53 I Iodine 126.90447	16 S Sulfur 32.066
22 Ti Titanium 47.867	88 Ra Radium (226)	39 Y Yttrium 88.90585

Get Involved & Support OCACS

If you want to network with over 1300 chemists in Orange County, host a technical tour, speak at one of our dinner meetings or science cafes, explore leadership opportunities, or advertise with our Section, please visit our [website](#) or E-mail us at OCACSLocalSection@gmail.com and OCACSCChair@gmail.com.

We would love to hear from you!

OCACS 2019 Executive Committee

Chair	Dr. Keisuke Ikehata	keisuke.ikehata@yahoo.com
Chair-Elect	Dr. Richard Deming	rdeming@fullerton.edu
Past Chair	Dr. Sandra Thompson	OCACSWCC@gmail.com
Treasurer	Mr. Robert Cohen	cohenr@sbcglobal.net
Secretary	Dr. Beverly Matsuda	BevMatsuda@iusd.org
Councilor	Dr. Rabin Lai	rabin@academysavant.com
Councilor	Mr. Robert Cohen	cohenr@sbcglobal.net
Councilor	Dr. Sanda Sun	sanda.sun@gmail.com
Alt. Councilor	Dr. Keisuke Ikehata	keisuke.ikehata@yahoo.com
Alt. Councilor	Dr. Carol Grimes	cgrimes@gwc.cccd.edu
Alt. Councilor	Dr. Sandra Thompson	OCACSWCC@gmail.com
Education Committee	Dr. Carol Grimes	cgrimes@gwc.cccd.edu
Environmental Committee	Dr. Ganesh Rajagopalan	rganesh@kennedyjenks.com
Program Committee	Mr. Robert Cohen	cohenr@sbcglobal.net
Younger Chemists Committee	Ms. Amanda Bjornstad	amandabjornstad@gmail.com
Women Chemists Committee	Dr. Sandra Thompson	OCACSWCC@gmail.com
Government Affairs Committee	Dr. Mark Hanning-Lee	markhl@prodigy.net
Kids & Chemistry	Dr. Sanda Sun	sanda.sun@gmail.com
Awards Committee	Dr. Sanda Sun	sanda.sun@gmail.com
Webmaster	Dr. Rabin Lai	rabin@academysavant.com