



**Exponent®**  
Engineering & Scientific Consulting

## Kehley Davies, Ph.D.

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### Professional Profile

Dr. Davies is a Senior Scientist in Exponent's Environmental & Earth Sciences practice, leveraging her expansive technical knowledge as an analytical chemist to conduct in-depth reviews of a wide range of data spanning multiple studies and guideline requirements.

Prior to joining Exponent, Dr. Davies worked in several laboratory environments and provided analytical technical expertise in a wide variety of analytical techniques, including chromatography with and without mass spectrometry (e.g., GC, LC, GPC, IC, GC-MS, LC-MS/MS, LC-TOF), spectroscopy (e.g., UV-Vis, FTIR, XRF, ICP-OES, AA), thermal analysis (e.g., TGA, DSC), and imaging (e.g., SEM).

Dr. Davies performed and led both targeted and comprehensive chemical analysis to evaluate product compositions and assess complex materials during root cause analyses of issues related to quality, contamination, and stability. She applied her experience to help internal and external clients determine the source and potential impacts of chemical contamination in a range of products. In addition, Dr. Davies provided analytical characterization in support of product registration under regulatory drivers including Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and Toxic Substances Control Act (TSCA).

Dr. Davies also led the development, validation, and implementation of analytical procedures for monitoring plant protection products and pharmaceuticals in complex environmental matrices. In her role as study director, Dr. Davies ensured validated methods met the requirements of established US and European regulatory guidelines (e.g., SANCO & SANTE, OECD) in accordance with rigorous quality assurance and good laboratory practice (GLP) procedures. Upon the initiation of associated biological exposure studies, Dr. Davies then acted as principal analyst to manage the conduct of these methods for all analytical work, including the interpretation and evaluation of resultant data.

### Academic Credentials & Professional Honors

Ph.D., Analytical Chemistry, University of Massachusetts, Lowell, 2019

M.S., Analytical Chemistry, University of Connecticut, 2011

B.A., Chemistry, Wheaton College, 2010

University of Massachusetts Lowell, Graduate Student of the Year, 2018

National Science Foundation, East Asia and Pacific Summer Institutes (EAPSI) Fellow, 2017

## Prior Experience

Analytical Technical Manager, Ingevity, 2023-2025

Senior Analytical Chemist, Ingevity, 2022-2023

Staff Scientist II, Eurofins EAG Agrosience, 2019-2022

Chemist II, Calloway Labs, 2012-2015

## Publications

Davies K, Ryan DK. Selective production of naphthalene from methanol by photocatalysis on nanostructured cobalt particles. *Catalysis Today* 2020; 350:142-148. doi: 10.1016/j.cattod.2019.07.023

## Presentations

Davies K, Ryan DK. Wavelength dependence on photocatalytic carbon dioxide reaction with methanol over nanostructured cobalt catalyst. American Chemical Society conference, Boston, MA, 2018.

Davies K, Farrell E, Soule J, Sobkowitz-Kline M, Ryan DK. Case study of polymer compatibility with ingredients in cosmetic products. American Chemical Society conference, Boston, MA, 2018.

Farrell E, Davies K, Ryan DK. Photodecomposition of liquids in carbon dioxide enriched environment by nanostructured cobalt catalyst. American Chemical Society conference, Boston, MA, 2018.

Davies K, Ryan DK. Production of naphthalene from carbon dioxide and methanol by photocatalysis using nanostructured cobalt. American Chemical Society conference, Washington, DC, 2017.