

Melissa J. Carr

[mcarr@rvgs.k12.va.us](mailto:mcarr@rvgs.k12.va.us)

Current position: Roanoke Valley Governor's School Science Instructor – RVGS Chemistry and Applied Chemical Research

Degrees: B.A. Chemistry with a minor in Secondary Science Education, Roanoke College

Professional Organization Memberships: Advancing Science Research Teaching (ASRT) member

Virginia Department of Education Endorsements: Chemistry

Presentations:

- National Math & Science Initiative Presenter – (various topics) Lewis Structures and Molecular Geometry, Solids, Liquids and Intermolecular Forces, Gas Laws, Kinetics, Thermochemistry, General and Solubility Equilibrium, Acid-Base Chemistry, Lab-Based Questions and Multiple-Choice Strategies 2011 - 2020
- Virginia Advanced Studies Strategies Chemistry AP Chemistry Webinar Instructor – Electrochemistry (Galvanic/Electrolytic), and 2011-2012

Recent professional development activities/Awards:

- 2025 AP Chemistry AP Exam Reader
- 2025 Ecology Project International - Costa Rica – Primates, Felines and Turtle Conservation
- 2024 – Virginia Department of Education course – Formative Assessment
- 2023 40 Under 40 Recognition - Roanoker Magazine
- 2022 Claes Nobel Educator of Distinction – NSHSS (National Society of High School Scholars)
- 2009, 2022 – College Board AP Chemistry training/certification (Wake Forest, East Carolina University)
- 2021 ASRT Advancing Science Research Teaching Conference and Training
- 2016 and 2021 Flinn Scientific Safety Training
- 2014, 2019, and 2022 (Research Experience for Teachers) with Dr. Christopher Rylander (Mechanical Engineering), Dr. Jake Socha (Mechanical Engineering) with Marc Edwards (Civil and Environmental Engineering), and Dr. Nicole Abaid (Mathematics) respectively at Virginia Tech
- 2017 VAST (Virginia Association of Science Teachers) conference in Roanoke, VA
- 2014 Outstanding High School Chemistry Teacher from the Blue Ridge Section of the American Chemical Society
- 2013 Golden Apple Winner – Roanoke County Public Schools

Previous Teaching Experience:

- AP Chemistry, Pre-AP Chemistry, Advanced Chemistry, and College Bound Chemistry Teacher – Roanoke County Public Schools – 2006 - 2025