KIMBERLEY WALDRON, Ph.D.

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PROFESSIONAL RADON CERTIFICATIONS

AARST/NRPP-Certified Radon Professional with three professional certifications: soil-gas mitigation compliance inspector (NRPP ID#113611-SGM-CI), radon measurement professional with standard and analytical services (NRPP ID#113537-RMP) and radon mitigation specialist (NRPP ID#113604-RMS). Licensed by the State of Colorado Department of Regulatory Agencies: Radon Measurement Professional (license #RME.00000448) and Radon Mitigation Professional (license # RMT.00000193).

SUMMARY OF PROFESSIONAL EXPERTISE (see below for details)

Director, The Center for Applied Radon Research: Director of a research organization devoted to reducing radon exposure, especially for low-income people. Emphasis on developing new methods for measuring and mitigating radon that reduce working levels. Fully certified in professional radon mitigation and measurement. Collaborating with known experts in the field and writing grants to federal agencies for funding. Perform radon measurements in large buildings, especially schools.

Ph.D. Inorganic Chemist: Expertise in all areas of inorganic chemistry especially those related to heavy radionuclides, the uranium-235 decay chain, and environmental chemistry. Interested in the principles of clean air, soil, and water and relevant policy, the measurement of selected trace pollutants and relevant EPA methods, radiochemical assessment, aqueous electrochemistry and the collection of environmental samples and data analysis.

Clear Communicator of Scientific information: Twenty-five years of teaching experience at the university level as a tenured full professor (variety of chemistry topics); extensive experience as a science writer and professional editor; expertise in explaining complex scientific information to a lay audience verbally and in writing.

Experienced Leader/Manager with History of Volunteer/Pro-Bono Scientific and Environmental Justice Work: Years of leading an academic department; ability to work professionally with people of all ages and backgrounds; lead PI on major multi-year FIPSE project; lead on a complex environmental contamination project in Brazil through AAAS.

LEADERSHIP

Professor Emeritus and Former Chair, Department of Chemistry / Regis University, Denver, CO (1995–2022) Served as Department Chair for six years. Responsibilities included: hiring, training, and assessing performance of all chemistry faculty; managing the departmental budget; calling, planning and organizing bi-weekly Department meetings; setting priorities for the Department based on Department input; overseeing and evaluating the work of others in the Department including administrative assistants, stockroom and waste manager, and all adjunct faculty; created course schedules; oversee assessment of all Departmental coursework; mediated student-faculty and faculty-faculty disagreements; counseled students with complaints or other difficulties; represent and lobby for our Department at university-wide meetings.

Lead Principal Investigator: Fund for the Improvement of Post-Secondary Education (FIPSE, part of the U.S. Department of Education, 2003-2008). Wrote and obtained funding for a coalition of five universities, three in the U.S. and two in Brazil, to take part in a student exchange program that provided opportunities for study and research in the area of environmental chemistry. Organized and led all aspects of this program over five years, including planning and running two meetings per year in different coalition cities.

Clare Boothe Luce Chaired Professorship (1996-2002): Obtained a grant that paid my salary over the years indicated. This professorship is awarded to young women with doctoral degrees in underrepresented fields within the sciences who wish to pursue academic careers.

SERVICE WORK

Metro Caring: General volunteer in food distribution. Ongoing.

Pro Bono Environmental Scientist, American Association for the Advancement of Science (AAAS, 2015): Volunteered as lead environmental chemist on a project based in the eastern Amazon basin of Brazil. Led an investigative team on behalf of the EDLC, a U.S. law firm which works on behalf of communities afflicted by environmental contamination. Served as the scientific consultant in a town where metal contamination from multiple unregulated smelting operations caused widespread contamination of soil and water and limited the quality of life and health of the native population.

Community Leader & Activist: (2014–2021) Served as Precinct 831 co-leader for GOTV and community participation in local Denver issues. Received the Volunteer of the Year Award 2017.

EDUCATION

1992 California Institute of Technology, Pasadena, CA, Postdoctoral Fellow in Bioinorganic Chemistry. Performed research in the laboratory of Dr. Jacqueline Barton on the interactions between transition metal complexes and deoxyribonucleic acid.

1991 Virginia Commonwealth University, Richmond, VA, Ph.D. in Inorganic Chemistry. Completed a comprehensive dissertation project in the area of molybdenum complex synthesis.

1985 University of Virginia, Charlottesville, VA, Bachelor of Science in Chemistry. Performed undergraduate analytical chemistry research. Worked as an environmental chemist on the UVA campus the year following graduation.

SCIENCE WRITING & PUBLICATIONS

Senior Writer & Editor, University of Chicago and *Nature* journals: Developmental editor and science writer for peer-reviewed medicinal chemistry publications and research grants originating in the Rawal research group. Copy editor for the family of *Nature* journals.

Kimberley Waldron (sole author) *Twenty-First Century Chemistry* (Macmillan Publishers/W.H. Freeman, 506 pages). First edition: 2014 (ISBN-10: 193622139X). Second edition: 2019 (ISBN-10: 1319106171).

- Liberal arts chemistry textbook with an emphasis on environmental chemistry. Teaches chemistry through storytelling and includes two essays in each of 14 chapters, most with an environmental theme.
- Includes chapters on climate change, LCAs, GMOs and food, renewable energy, and the chemistry of plastics.
- Approach is conceptual rather than mathematical. Praised by adopters and students for its readability, clarity, and conversational writing style. Includes 700 captioned figures and graphs and more than 700 end-of-chapter questions, including new internet-research-based questions that challenge students to investigate environmental issues in their communities.

Kimberley Waldron (sole author) *The Chemistry of Everything* (Pearson/Prentice Hall Publishers, ISBN-10: 0130085227, 672 pages). First edition: 2006. A textbook used to teach introductory chemistry to students majoring in nonscientific fields. Extends readers' vocabulary and knowledge of the scientific issues encountered in daily life. Addresses issues of ethics and responsibility in contemporary science.

University of Chicago, Graham School, *Professional Certificate in Editing* (2020). Completed in 2020. Coursework consists of basic, intermediate, and advanced copyediting, advanced grammar for professionals, and advanced electronic editing. Includes in-depth knowledge of Chicago style (capitalization, grammar and usage, punctuation, markup, numbers, mathematics in type, etc…).