

Rebecca J Abergel - CURRICULUM VITAE

Associate Professor
Department of Nuclear Engineering
University of California, Berkeley

Phone: (510) 486-5249
E-Mail: rjabergel@lbl.gov
URL: <https://abergel.lbl.gov>

Heavy Element Chemistry Group Leader
Chemical Sciences Division
Lawrence Berkeley National Laboratory

Education and Training

- 2021 Executive Training – Strategic Laboratory Leadership Program, **U Chicago Booth School of Business**
- 2016 Executive Training – Women’s Initiative for Empowerment, **University of California & CORO**
- 2014 Executive Training – Leadership Development Program, **UC Berkeley Haas School of Business**
- 2007-2008 Postdoctoral Training - Inorganic Chemistry, Microbiology, Structural Biology
Basic Sciences Division, **Fred Hutchinson Cancer Research Center** and
Department of Chemistry, **University of California at Berkeley** (joint appointment)
- 2002-2006 Graduate Training – Bio-Inorganic Chemistry
University of California at Berkeley, Ph.D. (2006)
Thesis: “Siderophores: From Synthesis and Structural Characterization to Medicinal Applications”
- 1999-2002 Undergraduate Training - Chemistry Major, Physics Minor
École Normale Supérieure de Paris / Université Pierre & Marie Curie, B.Sc. (2002)
Thesis: “O₂ Binding to a Vacant Site in Co(II) Complexes with Novel Tetradentate Salen-like Ligands”

Work Experience

- **Associate Professor, Department of Nuclear Engineering, UC Berkeley (Jul 2021 – present)**
- **Vice-Chair for Curriculum , Department of Nuclear Engineering, UC Berkeley (Jan 2023-present)**
- **Faculty Scientist, Chemical Sciences Division, Lawrence Berkeley National Laboratory (Jan 2018 – present)**
- **Heavy Element Chemistry Program Leader, Chemical Sciences Division, LBNL (Mar 2018 – present)**
- **Glenn T. Seaborg Center Director, Chemical Sciences Division, LBNL (Mar 2018 – present)**
- **Nuclear Engineering Department Equity Advisor, UC Berkeley (Jun 2018-present)**
- **Assistant Professor, Department of Nuclear Engineering, UC Berkeley (Jan 2018 – Jun 2021)**
- **Career Development and Diversity Officer, Chemical Sciences Division, LBNL (Jan 2016 – Jan 2018)**
Created and developed strategic programs for the Division to increase diversity and foster an inclusive working environment for all scientific and administrative staff.
- **Deputy Director, Institute for Resilient Communities, LBNL (Apr 2015 – April 2018)**
Created and developed new strategic and scientific initiatives for the Institute for Resilient Communities (IRC). Established and grew relationships with existing and new IRC partners. Advocated for critical partnerships across LBNL and with external stakeholders. Coordinated the Health Effects scientific effort. <http://www.irc-berkeley.org/>.
- **Staff Scientist, Chemical Sciences Division, LBNL (Nov 2010 – Dec 2017)**
Led and managed the Heavy Element Decorporation and Biological Chemistry programs. Performed and supervised research efforts related to (i) studies of heavy element biological coordination and toxicology, (ii) the preclinical and clinical development of therapeutic metal chelating agents, and (iii) the development of new ligand platforms for f-elements. A major milestone of the Decorporation Program is the August 2014 “Investigational New Drug” designation from the U.S. Food and Drug Administration for a therapeutic radionuclide decorporation agent as a new medical countermeasure against nuclear threats.
- **Project Scientist, Chemical Sciences Division, LBNL (Mar 2009 – Oct 2010)**
Supervised synthesis scale-up processes, certification and characterization of new decorporation agents and corresponding actinide and lanthanide complexes, and animal testing at LBNL; Coordinated preclinical evaluations with partnering institutions SRI International and Lovelace Respiratory Research Institute.

- **Research Specialist, Department of Chemistry, UC Berkeley, USA (Aug 2008 – Feb 2009)**
Responsible for implementing analytical characterization and certification methods for manufactured synthetic materials; Coordinated the animal testing, leading towards preclinical evaluation.
- **Post-Doctoral Research Fellow (Jan 2007 – Jul 2008, Advisors: Prof. Kenneth Raymond, UC Berkeley, CA, and Prof. Roland Strong, FHCRC, Seattle, WA)**
Characterized the bacteriostatic function of the innate immune protein siderocalin in binding siderophores from pathogenic microorganisms such as *Bacillus anthracis*, for the development of new antibiotics.
- **Graduate Student Researcher (Aug 2002 – Dec 2006, Advisor: Prof. Kenneth Raymond, UC Berkeley)**
Synthesized, characterized and evaluated siderophore analogs and corresponding transition metal complexes to probe microbial iron transport systems and design new iron chelating agents.
- **Undergraduate Research Assistant (Spring 2002, Advisor: Prof. John Arnold, UC Berkeley)**
Synthesized Co(II) complexes of tetradentate salen-like ligands and characterized dioxygen binding.

Teaching, Mentoring, Outreach, Diversity and Inclusion

- Instructor of record for UC Berkeley courses in Departments of Nuclear Engineering (NE) and Chemistry (CHEM)
 - o CHEM-146 2021/22/23: *Radiochemical Methods in Nuclear Technology & Forensics (Undergraduate Laboratory)*
 - o NE-24 2020/21/22: *Practical Skills for Undergraduate Research in Science & Engineering (Freshman Seminar)*
 - o NE-124 2020/22: *Radioactive Waste Management (Undergraduate Upper Division)*
 - o NE-262 2019/20/21/22/23: *Radiation Biology (Post Graduate)*
 - o NE-162 2018/19/20/21/22/23: *Radiation Biophysics and Dosimetry (Undergraduate Upper Division)*
- Supervises undergraduate student researchers (25 since 2009, 2 currently), master's student researchers (12 since 2009), doctorate-level graduate student researchers (8 since 2017, 4 currently), technical research associates (5 since 2011, 1 currently), postdoctoral researchers (19 since 2011, 5 currently), and project scientists (3 since 2013).
- Manages LBNL Heavy Element Chemistry Program, with direct supervision of 5 PIs (LBNL Staff/Senior Scientists).
- Oral Examiner and Teaching Assistant/Tutor Positions
 - o Examiner for Doctoral Degree in Pharmacy, Dr. Sophie Grivès, Université Paris-Sud, Faculté de Pharmacy de Châtenay-Malabry, France (March 2015).
 - o Examiner for "Habilitation à Diriger les Recherches" in Chemistry, Dr. Carole Bresson, Université Pierre et Marie Curie, Paris, France (December 2014).
 - o UC Berkeley Teaching Assistant: *Inorganic Synthesis Laboratory for Chemistry Majors* (Spring 2004/05)
 - o UC Berkeley Teaching Assistant: *Chemical Structure and Reactivity I & II* (Spring 2002/03)
- Lawrence Berkeley National Laboratory Outreach Activities
 - o Mentor for Berkeley High School AP Chemistry Course (2015)
 - o Participated in the Science at the Theater Program (2013, 2014)
 - o Participated in the Chemical Sciences Open House Stands (2011, 2012)
- Outreach with Community Resources for Science: UC Berkeley Steering Committee Member
 - o Participated in the development of science outreach activities (2009-2011)
 - o Performed scientific presentations and experiments in 1st and 3rd grade classes (2005-2009)
 - o Outreach DVD project leader: "Bridging the gap between the research lab and the classroom": Produced and edited interviews of UC Professors by children (K-5) into videos distributed to Alameda County Elementary Schools to promote college education (2007-2010). Sponsored by Community Resources for Science
- Lawrence Berkeley National Laboratory Diversity and Inclusion Activities
 - o Chemical Sciences Division Diversity, Equity & Inclusion Committee Vice Chair (2018-2019)
 - o Women Scientists and Engineers Council, Chemical Sciences Division Representative (2016-2018)
 - o Diversity and Inclusion Council, Chemical Sciences Division Representative (2016-2018)
 - o Chemical Sciences Division Post-Doctoral Fellow Retreat, Organizer (2016, 2017)
 - o Chemical Sciences Division Post-Doctoral Fellow Career and Research Symposium, Organizer (2017, 2018)
- Public Presentations (See List of Oral Presentations): TedX, NerdNite, etc.

Industry, Consulting, and Expert Witness Services

- Goodwin Proctor LLP, New York, NY, USA (2022-present)
- HOPO Therapeutics, LLC., Co-founder (2020-present)
- Guerbet Medical Advisory Board, USA (2017-2018)
- Hanuman Medical Inc., San Francisco, CA, USA (2006 – 2008)
- Vinson & Elkins LLP, New York, NY, USA (2008 – 2009)
- FerroKin BioSciences, Inc., San Carlos, CA, USA (2008-2009)

Awards and Fellowships

- Director's Award for Exceptional Achievement in Tech Transfer (2022), LBNL, USA
- Kenneth N. Raymond Lectureship in Inorganic Chemistry (2022), UC Berkeley, USA
- Bakar Faculty Fellow (2021-2022), Bakar Faculty Fellows Spark Award Program, UC Berkeley, USA
- Secretary of Energy Achievement Honor Award - COVID-19 Clinical Testing Teams (2020), U.S. DOE
- Secretary of Energy Achievement Honor Award - National Virtual Biotechnology Laboratory (2020), U.S. DOE
- Hellman Fellow (2020), Hellman Fellows Fund, UC Berkeley, USA
- AAAS Fellow (2019), American Association for the Advancement of Science, USA
- Nuclear & Quantum Engineering Pioneer Lecturer (2019), KAIST, Korea
- Science & Technology in Society Forum "Future Leader" (2018), Kyoto, Japan
- WCC Rising Star award (2017), American Chemical Society, USA
- Early Career Investigator Travel Award (2016, 2017, 2018), Radiation Research Society, USA
- Early Career Award (2014), U.S. Department of Energy
- MIT Technology Review Innovators Under 35 – France (2014)
- Director's Award for Exceptional Scientific Achievement (2013), LBNL, USA
- Women at the Lab Award (2013), Lawrence Berkeley National Laboratory, USA
- Junior Faculty NCRP Award (2013), Radiation Research Society, USA
- Young Investigator Research Award (2009-2010), Cooley's Anemia Foundation, New York, NY, USA
- European Commission Marie Curie Actions Scholarship (2004), European School of Haematology, France
- Université Pierre et Marie Curie Annual Fellowship (2002), French Conseil Régional d'Ile de France, France

Research Support

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|---|---------------------|
| - US DOE Nuclear Energy University Program Grant (PI) | 10/01/22 – 09/30/24 |
| <i>Advanced Screening Approaches for Accelerating Development of Separations Technologies</i> | |
| - Deep Isolation via US DOE ARPA-E (co-PI; Brinton) | 10/01/22 – 09/30/25 |
| <i>UPWARDS: Universal Performance Criteria and Canister for Advanced Reactor Waste Form Acceptance in Borehole and Mined Repository Design Safety</i> | |
| - SRI International via NIH/NIAID (co-PI; Chang) | 07/01/22 – 12/31/23 |
| <i>Decorporation MCM Phase I Clinical Safety Study – LBNL Support</i> | |
| - Northwestern University via NIH/NIAID (co-PI; Woloschak) | 03/01/22 – 02/28/27 |
| <i>Multi-Scale Evaluation and Mitigation of Toxicities Following Internal Radionuclide Contamination</i> | |
| - Provepharm Contract (PI) | 01/01/22 – 12/31/22 |
| <i>Evaluation of Methylene Blue for Radionuclide Decorporation</i> | |
| - Northwestern University via U.S. Department of Defense (co-PI; Woloschak) | 10/01/21 – 09/30/25 |
| <i>Aligning Dosimetry and Biomarkers of Lung Injury with Prophylaxis and Mitigation of Damage from Radionuclides and Metals</i> | |
| - US DOE Basic Energy Science DE-AC02-05CH11231 (co-PI; Minasian) | 10/01/21 – 09/30/24 |
| <i>Molecular f-Element Qubits with Controllable Quantum Coherence and Entanglement</i> | |
| - US DOE NNSA (co-PI; Vujic) | 10/01/21 – 09/30/26 |
| <i>Nuclear Science and Engineering Consortium for Nonproliferation</i> | |
| - Bakar Faculty Fellow Spark Award (PI) | 07/01/21 – 06/30/23 |
| <i>Therapeutic Interventions for Post-MRI Gadolinium Toxicity</i> | |

- RadImmune Therapeutics Contract (PI) 01/01/21 – 06/30/22
Development and evaluation of antibody-radionuclide drug conjugates
- US DOE Basic Energy Science DE-AC02-05CH11231 (PI) 10/01/20 – 09/30/23
The Rare-Earth Project: Harnessing Differences in Electronic Structure for Multiscale, Multicomponent Separations
- Hellman Fellows Fund Grant (PI) 07/01/20 – 06/30/21
Targeted Design of New Radionuclide-Based Antimicrobial Therapeutics
- US DOE Nuclear Energy University Program Grant to Clemson University (co-PI; Powell) 10/01/20 – 09/30/23
Quantifying radionuclide sorption to engineered barrier materials under elevated temperature and ionic strength conditions
- US DOE Nuclear Energy University Program Grant (PI) 10/01/20 – 09/30/23
Evaluating hydroxypyridinone-based ligands for actinide and fission products recovery in used fuels
- Lawrence Berkeley National Laboratory Grant (PI) 05/08/20 – 09/30/21
Demonstrating the Utility of Targeted Alpha-Radiotherapeutics against Viral Threats
- US DOE Basic Energy Science DE-AC02-05CH11231 (PI) 03/31/20 – 09/30/20
DOE National Laboratory COVID-19 Testing Research & Development Priorities
- US DOE Nuclear Physics Isotope Production DE-AC02-05CH11231 (PI) 06/01/20 – 05/31/22
Radioisotope Separation Method Development Using Hydroxypyridinone Derivatives
- Idaho National Laboratory Grant (co-PI) 01/01/20 – 12/31/20
Radiation-Induced Changes to f-Element Complex Coordination Environments
- UC Berkeley Collegium Grant (PI) 07/01/19 – 06/30/21
Practical Skills Enabling Undergraduate Research in Science and Engineering
- Berkeley Lab Foundation (PI) 10/01/18 – 09/30/21
Investigating Gadolinium Toxicity from Contrast Agents
- US DOE DE-AC02-05CH11231 – LBNL LDRD (co-PI) 10/01/18 – 09/30/20
Engineering of Highly Selective Advanced Biogenics
- US DOE Basic Energy Science DE-AC02-05CH11231 – FWP CH030203 (PI) 03/01/18 – Ongoing
LBNL Heavy Element Chemistry Program
- Los Alamos National Security LLC - AWD00002917 (PI) 02/15/18 – 09/30/20
Establishing a Radiotherapeutic Capability to Counter Biothreats
- NIH/NIBIB R21EB023601 (PI) 08/01/17 – 05/31/20
Exploring the use of a hydroxypyridinone decorporation agent for the removal of toxic residual gadolinium from MRI contrast agent administration
- US DOE Nuclear Physics Isotope Production DE-AC02-05CH11231 (PI) 07/01/17 – 12/31/20
Positron-Emitting Analogues of Alpha-Emitting Therapy Radionuclides
- NIH 2722015000131-0-27200002 SRI Subcontract 5324 (PI) 11/01/16 – 06/30/20
3,4,3-LI(1,2-HOPO): Clinical Trial Material Manufacturing
- Abbvie Stemcentrx LLC - AWD00001920 (PI) 11/01/16 – 10/31/18
Proof-of-Concept Evaluation of Antibody-Radionuclide Drug-Conjugates
- US DOE DE-AC02-05CH11231 – LBNL Innovation (PI) 07/01/16 – 06/30/17
Evaluating the use of 3,4,3-LI(1,2-HOPO) for removal of toxic gadolinium and lead
- US DOE Nuclear Physics Isotope Production DE-AC02-05CH11231 (PI) 02/10/16 – 09/30/17
Biodistribution and Toxicity Evaluation of Accelerator-Produced Actinium-225
- Bayer Healthcare Pharmaceuticals AWD00000877 (PI) 10/01/15 – 09/01/18
Coordination Chemistry Characterization of Conjugated Th-Chelators for Alpha-Therapy Applications
- US DOE DE-AC02-05CH11231 – FWP CH030203 (co-PI) 10/01/13 – 02/28/18
Coordination and Solution Chemistry of Actinides by Selective Metal-Binding Molecules
- US DOE DE-AC02-05CH11231 – FWP CH14ABE3 (PI) 08/01/14 – 07/31/19
Harnessing f-Orbital Bonding Through Precision Antenna Ligand Design for Actinide Complexation
- US DOE DE-AC02-05CH11231 – LBNL LDRD (co-PI) 10/01/14 – 09/30/16
Multi-disciplinary research to enhance understanding of transport, risks, and mitigation of radioisotopes for improved radiological resilience

- BARDA IPIAA12OS99609 (PI) 09/26/12 – 09/30/14
Proof-of-Concept Efficacy of the Actinide Decorporation Agent 3,4,3-LI(1,2-HOPO)
- US DOE DE-AC02-05CH11231 – LBNL LDRD (PI) 10/01/11 – 09/30/12
Global transcriptome profiling of yeast exposed to radioactive metal ions
- NIH HHSN272201000046C WA225 (PI) 03/06/12 – 09/30/15
3,4,3-LI(1,2-HOPO): Formulation Development for IND-Enabling Studies
- NIH 1 RC2 AI087604-01 (co-PI) 09/28/09 – 08/31/12
Biomimetic Actinide Decorporation: Characterization and Preclinical Development
- Cooley's Anemia Foundation Young Investigator Award (PI) 07/01/09 – 06/30/11
Design, Evaluation and Development of Orally Active Multidentate Iron Chelators

Collaborations and Industrial Partners

- Prof. Wesley Bolch (University of Florida, Department of Biomedical and Radiological Engineering)
- Prof. Shaheen Dewji (Georgia Tech, Department of Nuclear & Radiological Engineering)
- Prof. Chris Vulpe (University of Florida, College of Veterinary Medicine)
- Prof. Cecilia Martinez-Gomez (UC Berkeley, Department of Plant & Microbial Biology)
- Prof. Caroline Ajo-Franklin (Rice University, Department of Chemistry)
- Prof. Jenifer Shafer (Colorado School of Mines, Department of Chemistry)
- Prof. Gayle Woloschak (Northwestern University, Feinberg School of Medicine)
- Dr. Frederic Girard (Provepharm Inc)
- Dr. Steven Deitcher (RadImmune Inc)
- Dr. Holger Karsunky (Abbvie – Stemcentrx)
- Dr. Alan Cuthbertson (Bayer AS)
- Dr. Corie Ralston (LBNL, Molecular Foundry)
- Dr. Thomas Just Sorensen (University of Copenhagen)
- Prof. Lynn Francesconi (Hunter College, Chemistry Department)
- Dr. Stosh Kozimor (Los Alamos National Laboratory, Chemistry Division)
- Dr. Ping Yang (Los Alamos National Laboratory, Theoretical Division)
- Dr. Anthony D'Aleo (Marseille University, CNRS, France)
- Prof. Kai Vetter and Lee Bernstein (LBNL, Nuclear Sciences Division, and UC Berkeley, Nuclear Engineering Dept)
- Prof. Roland Strong (Fred Hutchinson Cancer Research Center, Division of Basic Sciences)
- Dr. Gregory Horne (Idaho National Laboratory, Center for Radiation Chemistry Research)
- Prof. Brian Powell (Clemson University, Department of Environmental Engineering and Earth Sciences)
- SRI International (Dr. Polly Chang, Sr. Director, Molecular & Genetic Toxicology)
- Lovelace Respiratory Research Inst. (Dr. Dunstana Melo, Director, Center for Countermeasures against Radiation)
- Dr. Eleanore Blakely (LBNL, Life Sciences Division)
- Commissariat a l'Énergie Atomique (Dr. Florence Ménétrier, Direction des Sciences du Vivant /Unité PROSITON)
- Institut de Radioprotection et Sureté Nucléaire (Dr. Francois Rebiere, Director, Laboratoire de RadioChimie)
- Prof. Anne Mason (University of Vermont, Department of Biochemistry)
- Formurex, Inc. (Dr. R. Mahalingam, Vice-President Operations)
- Synthetech, Inc. (Dr. M. Standen, Director of Technology)
- Aptuit, Inc. (Dr. C. Bleczynski, Director, Business Development, API Development and Manufacturing)
- Dr. Marinella Mazzanti (Laboratoire de Reconnaissance Ionique et Chimie de Coordination, CEA, France)

Affiliations and Institutional Service

- UC Berkeley College of Engineering Jane Lewis Committee (Member, 2018-Present)
- UC Berkeley Nuclear Engineering Department Climate Advisory Committee (Chair, 2019-2021)
- UC Berkeley College of Engineering Equity and Inclusion Council (Member, 2018-Present)
- UC Berkeley College of Engineering Faculty Advisory Council (Member, 2019-2020)
- UC Berkeley College of Engineering Undergraduate Admissions Committee (Member, 2019-2021)

- UC Berkeley College of Engineering Aero Astro Space Taskforce (Member, 2019-2020)
- UC Berkeley Undergraduate Scholarships, Honors, and Financial Aid Committee (Member, 2021-Present)
- UC Berkeley College of Engineering *ad-hoc* Committee on Moffett Field (Member, 2022-Present)
- UC Berkeley College of Engineering – Secretary of the Faculty (2022-2024 [Chair of the Faculty 2024-2026])

- LBNL Radioactive Drug Research Committee (Chair, 2009-Present)
- LBNL Chemical Sciences Divisional Staff Committee (Member, 2014-Present)
- LBNL Chemical Sciences Divisional Council (Member, 2011-Present)
- LBNL Energy Science Area Mentorship Program MESA (Mentor, 2021-Present)
- LBNL Earth and Environmental Sciences Associate Laboratory Director Search Committee (Member, 2022)
- LBNL Molecular Foundry Inorganic Nanostructures Facility Staff Scientist Search Committee (Member, 2020)
- LBNL Nuclear Sciences Division Staff Scientist Search Committee (Member, 2020)
- LBNL Deputy Program Manager - CBTD Programs Search Committee (Member, 2019)
- LBNL EH&S Director Search Committee (Member, 2018)
- LBNL Molecular Foundry Organic Facility Director Search Committee (Member, 2015)
- LBNL Joint Center for Artificial Synthesis Staff Scientist Search Committee (Member, 2015)
- LBNL Chemical Sciences Divisional Postdoc Selection Committee (Chair, 2015)
- LBNL Chemical Sciences Division Director Search Committees (Member, 2010, 2012, 2018)

- ACS Nuclear Chemistry Section – Annual Meetings Program Committee (Member, 2021-Present)
- 2025 Rare Earth Research Conference – Program Committee Chair (Elected)
- 2023 International Conference on Radiation Research Program Committee (Member)
- 2022 US DOE BES/NE Roundtable on Nuclear Energy Innovation (Co-Chair)
- 2022 Metallocofactors Gordon Research Conference (Session Chair – Lanthanide Metallobiochemistry)
- 2022 Radiation Research Society Annual Meeting Program Committee (Member)
- 2021 Radiation Research Society Annual Meeting Program Committee (Member)
- 2021 Annual American Chemical Society Meeting – Cotton Award - M. Mazzanti - Symposium (Organizer)
- 2020 Radiation Research Society Winter Workshop on Targeted Radionuclide Therapy (Organizer)
- 2020 Annual American Chemical Society Meeting – Radiotherapeutics Symposium (Organizer, *held in 2021*)
- 2020 Materials Research Society Meeting – Actinide Science Symposium (Organizer)
- AAAS Electorate Nominating Committee (ENC) of the Section on Chemistry (Member, 2019-Present)
- 2021 Radiation Research Society Annual Meeting Program Committee (Member)
- 2020 Radiation Research Society Annual Meeting Program Committee (Member)
- 2020 Rare Earth Research Conference Scientific Committee (Member, *conference held in 2022*)
- 2018 Inorganic Chemistry Gordon Research Conference (Session Chair – Bio-Inorganic Chemistry)
- Radiation Research Society (Councilor-at-Large, 2017-2020)
- Radiation Research Society Finance Committee (Member, 2015-Present)
- 2018 Radiation Research Society Annual Meeting Program Committee (Member)
- 12th Int. Conference on the Health Effects of Incorporated Radionuclides (Scientific Committee Member, 2018)
- 2017 Rare Earth Research Conference Scientific Committee (Member)
- 2nd International Symposium on Radiological Resilience & Beyond (Organizer and Discussion Chair, April 2016)
- 1st International Symposium on Radiological Resilience & Beyond (Organizer, April 2015)
- 11th International Conference on the Health Effects of Incorporated Radionuclides (Organizer, 2013)

- American Nuclear Society (Member, 2019-Present)
- Society for Nuclear Medicine and Molecular Imaging (Member, 2018-Present)
- American Association for the Advancement of Science (Member, 2014-Present)
- Health Physics Society (Member, 2011-Present)
- Society of Toxicology (Member, 2011-Present)
- International Biometals Society (Member, 2011-Present)
- U.S. Women in Nuclear Organization (Member, 2011-Present)

- Radiation Research Society (Member, 2009-Present)
- American Chemical Society (Member, 2004-Present)
- Advanced Light Source (User, 2014-Present)
- Stanford Synchrotron Radiation Laboratory (User, 2005-2009, 2018-Present)
- Advanced Photon Source (User, 2003-2011)

Reviewing and Editorial Services

- Reviewer for: Nature, Nature Chemistry, ACS Central Science, Journal of Hazardous Materials, Chemical Science, Chemistry a European Journal, Biochimie, ChemPhysChem, Journal of Pharmaceutical and Biomedical Analysis, Bioconjugate Chemistry, Radiation Research, Physical Chemistry Chemical Physics, Advanced Drug Delivery Reviews, Journal of Pharmaceutical Sciences, Metallomics, Pharmaceutical Development and Technology, Journal of Controlled Release, Pharmaceutical Research, Chemical Research in Toxicology, PLoS, Radiochimica Acta, Dalton Transactions, ISRN Thermodynamics, Hemoglobin, Inorganic Chemistry, Health Physics, International Journal of Radiation Biology, Expert Opinion on Drug Discovery, Journal of the American Chemical Society, Actinides 2009 Conference
- Guest Editor of Forum Issue on “Innovative f-Element Chelating Strategies” in *Inorganic Chemistry* (2018-2019)
- Proposal Reviewer for NSF, US DOE, SSRL, NIH, VA, French ANR, Research Corporation for Science Advancement
- Program Reviewer for US DOE NP, US DOE BES, French IRSN
- Idaho National Laboratory’s Glenn T. Seaborg Institute (Scientific Advisor, 2108-Present)
- US DOE BES CSGB 2020 Committee of Visitors (COV) (Member, 2020)
- Los Alamos National Laboratory’s Science, Technology, and Engineering Committee (Member, 2021-Present)
- *Inorganic Chemistry* Editorial Board (Member, 2023-Present)
- Associate Editor for the *International Journal of Radiation Biology*
- Corresponding Member (USA) for *Radioprotection*

Bibliography

Refereed Publications in Archival Journals

1. Abergel RJ, Dinca M „9,10-Dibromotriptycene“ *Acta. Cryst. E* **2004**, 60, O1248.
2. Abergel RJ, Raymond KN “Synthesis and Thermodynamic Evaluation of Mixed Hexadentate Linear Iron Chelators Containing Hydroxypyridinone and Terephthalamide Units” *Inorg. Chem.* **2006**, 45, 3622.
3. Abergel RJ, Warner JA, Shuh DK, Raymond KN “Enterobactin Protonation and Iron Release: Structural Characterization of the Salicylate Coordination Shift in Ferric Enterobactin” *J. Am. Chem. Soc.* **2006**, 128, 8920.
4. Wilson MK, Abergel RJ, Raymond KN, Arceneaux JEL, Byers BR “Catecholate Siderophores of *Bacillus Anthracis*, *Bacillus Cereus*, and *Bacillus Thuringiensis*” *Biochem. Biophys. Res. Comm.* **2006**, 348, 320.
5. Abergel RJ, Moore EG, Strong RK, Raymond KN “Microbial Evasion of the Immune System: Structural Modifications of Enterobactin Impair Siderocalin Recognition” *J. Am. Chem. Soc.* **2006**, 128, 10998.
6. Fischbach MA, Lin H, Zhou L, Yu Y, Abergel RJ, Liu DR, Raymond KN, Wanner BL, Strong RK, Walsh CT, Aderem A, Smith KD “The Pathogen-Associated *iroA* Gene Cluster Mediates Bacterial Evasion of Lipocalin 2” *Proc. Natl. Acad. Sci.* **2006**, 103, 16502.
7. Abergel RJ, Wilson MK, Arceneaux JEL, Hoette TM, Strong RK, Byers BR, Raymond KN “The Anthrax Pathogen Evades the Mammalian Immune System Through Stealth Siderophore Production” *Proc. Natl. Acad. Sci.* **2006**, 103, 18499.
8. Abergel RJ, Raymond KN “Terephthalamide-Containing Ligands: Fast Removal of Iron from Transferrin” *J. Biol. Inorg. Chem.* **2008**, 13, 229.
9. Abergel RJ, Zawadzka AM, Raymond KN “Petrobactin-Mediated Iron Transport in Pathogenic Bacteria: Coordination Chemistry of an Unusual 3,4-Catecholate/Citrate Siderophore” *J. Am. Chem. Soc.* **2008**, 130, 2124.
10. Abergel RJ, Clifton MC, Pizarro JC, Warner JA, Shuh DK, Strong RK, Raymond KN “The Siderocalin/Enterobactin Interaction: A Link between Mammalian Immunity and Bacterial Iron Transport” *J. Am. Chem. Soc.* **2008**, 130, 11524.

11. Hoette TM, Abergel RJ, Xu J, Strong RK, Raymond KN “The Role of Electrostatics in Siderophore Recognition by the Immunoprotein Siderocalin” *J. Am. Chem. Soc.* **2008**, *130*, 17584.
12. Zawadzka AM, Abergel RJ, Nichiporuk R, Andersen UN, Raymond KN “Siderophore-Mediated Iron Acquisition Systems in *Bacillus cereus*: Identification of Receptors for Anthrax Virulence-Associated Petrobactin” *Biochemistry* **2009**, *48*, 3645.
13. Abergel RJ, Zawadzka AM, Hoette TM, Raymond KN “Enzymatic Hydrolysis of Trilactone Siderophores: Where Chiral Recognition Occurs in Enterobactin and Bacillibactin Iron Transport” *J. Am. Chem. Soc.* **2009**, *131*, 12682.
14. Abergel RJ, D’Aléo A, Ng Pak Leung C, Shuh DK, Raymond KN “Using the Antenna Effect as a Spectroscopic Tool; Photophysics and Solution Thermodynamics of the Model Luminescent Hydroxypyridonate Complex [Eu^{III}(3,4,3LI(1,2-HOPO))]” *Inorg. Chem.* **2009**, *48*, 10868.
15. Wilson MK, Abergel RJ, Arceneaux JEL, Raymond KN, Byers BR “Temporal Production of the Two *Bacillus anthracis* Siderophores, Petrobactin and Bacillibactin” *Biometals*. **2010**, *23*, 129.
16. Abergel RJ, Durbin PW, Kullgren B, Ebbe SN, Xu J, Chang PY, Bunin DI, Blakely EA, Bjornstad KA, Rosen CJ, Shuh DK, Raymond KN “Biomimetic Actinide Chelators: An Update on the Preclinical Development of Orally Active Hydroxypyridonate Decorporation Agents” *Health Phys.* **2010**, *99*, 401.
17. Abergel RJ, Raymond KN “Multidentate Terephthalamidate and Hydroxypyridonate Ligands: Towards New Orally Active Chelators” *Hemoglobin* **2011**, *35*, 276.
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4. Arnedo-Sanchez L, Abergel RJ “Challenges of actinium coordination chemistry for nuclear medicine” *J. Med. Im. Radiat. Sci.* **2019**, 50, S39. (Published March 2019)
5. Rees JA, Abergel RJ “Bioconjugation of Actinides using a Peptoid Scaffold” *J. Med. Im. Radiat. Sci.* **2019**, 50, S35. (Published March 2019)
6. Bailey T, Lakes AL, An DD, Gauny SS, Abergel RJ “Biodistribution Studies of Chelated Ce-134/La-134 as Positron-Emitting Analogues of Alpha-Emitting Therapy Radionuclides” *J. Nucl. Med.* **2019**, 60, 130. (Published May 2019)
7. Rees J, Abergel RJ “Bio-inspired peptoid chelators for imaging and targeted alpha therapy” *Nucl. Med. Biol.* **2019**, 72, S45. (Published July 2019)
8. Lakes A, Gauny SS, An DD, Rees J, Ansoborlo C, Sisodiya V, Mcknight K, Abergel RJ “Ac-225 vs Lu-177 radioimmunoconjugates in vitro and in vivo” *Nucl. Med. Biol.* **2019**, 72, S15. (Published July 2019)
9. Arnedo-Sanchez L, Abergel RJ “Challenges of actinium coordination chemistry for nuclear medicine” *J. Med. Imag. Radiat. Sci.* **2019**, 50 (4), S111. (Published December 2019)
10. Abergel RJ, An DD, Lakes A, Rees J, Gauny SS “Actinium Biokinetics and Dosimetry: What is the Impact of Ac-227 in Accelerator-Produced Ac-225?” *J. Med. Imag. Radiat. Sci.* **2019**, 50 (4), S93. (Published December 2019)
11. Model R, Emerzian SR, Wu T, Abergel RJ, Keaveny TM “Relative Effects of Radiation-Induced Changes in Bone Mass, Microstructure, and Tissue Material Behavior on Vertebral Strength in a Rat Model” *J. Bone Min. Res.* **2022**, 37, 90-90. (Published February 2022)
12. Shield KM, Deblonde GJP, Abergel RJ “f-Element Solvent Extractions: A Microscale Study” *Nucl. Sci. Eng.* **2022**, 119 (1), 103-105. (Published May 2022).

Non-Refereed Conference and Symposium Proceedings

1. Abergel RJ, Warner JA, Shuh DK, Raymond KN “Characterization of the salicylate coordination shift in ferric enterobactin, using EXAFS and NMR spectroscopies.” *Abstracts Papers Amer. Chem. Soc.* **2005**, 229.
2. Abergel RJ, Raymond KN “INOR 629-Siderocalin: An immune response to bacterial siderophores” *Abstracts Papers Amer. Chem. Soc.* **2006**, 232.
3. Abergel RJ, Zawadzka AM, Raymond KN “INOR 226-Petrobactin-mediated iron transport in pathogenic bacteria” *Abstracts Papers Amer. Chem. Soc.* **2008**, 235.
4. Abergel RJ, Raymond KN “INOR 414-Siderocalin, a link between mammalian immunity and iron transport” *Abstracts Papers Amer. Chem. Soc.* **2008**, 235.
5. Zawadzka AM, Nichiporuk R, Abergel RJ, Raymond KN “INOR 228-Use of mass spectrometry for characterization of siderophore-binding receptor proteins for iron acquisition in gram-positive bacteria” *Abstracts Papers Amer. Chem. Soc.* **2008**, 235.
6. Raymond KN, Abergel RJ, Hoette TM, Zawadzka AM “GEOC 62-Microbial iron transport: A lesson in coordination chemistry” *Abstracts Papers Amer. Chem. Soc.* **2008**, 236.

7. Raymond KN, Xu J, Szigethy G, Shuh DK, Abergel RJ “Actinide coordination chemistry: Needs and opportunities” *Abstracts Papers Amer. Chem. Soc.* **2009**, 238.
8. Abergel RJ, Sturzbecher-Hoehne M, Goujon C, Kullgren B, Jarvis EE “Curium contamination and decorporation: Mechanistic insights” *Abstracts Papers Amer. Chem. Soc.* **2012**, 243.
9. Abergel RJ, Deblonde GJP, Struzbecher-Hoehne M “Solution thermodynamics of actinide complexation by hydroxypyridinonate chelating agents and endogenous ligands” *Abstracts Papers Amer. Chem. Soc.* **2013**, 245.
10. Abergel RJ, Sturzbecher-Hoehne M, Deblonde GJP, Mason AB “Transferrin-mediated endocytosis of metal ions: A highly selective process” *Abstracts Papers Amer. Chem. Soc.* **2013**, 245.
11. Abergel RJ, Allred B, Sturzbecher-Hoehne M “Enhanced luminescence sensitization of trivalent lanthanide and actinide ions using macromolecular complex recognition” *Abstracts Papers Amer. Chem. Soc.* **2014**, 248.
12. Abergel RJ, Allred B, Sturzbecher-Hoehne M, D’Aleo A “Specific recognition and enhanced luminescence sensitization of trivalent actinides” *Abstracts Papers Amer. Chem. Soc.* **2015**, 249.
13. Yakovlev I, Abergel RJ “Precision design of new multidentate ligands for f-elements” *Abstracts Papers Amer. Chem. Soc.* **2015**, 250.
14. Berard P, Lecoix G, Menetrier F, Leiterer A, Gremy O, Mougard P, Gonin M, Paquet F, Davesne E, Bertho JM, Metivier H, Abergel RJ “Internal contamination: what challenges for tomorrow?” *Proc. Res. Health Sect.* **2015**, 47, S61.
15. Agbo P, Xu T, Abergel RJ “Photosensitized downconversion in rare-earth fluoride nanocrystals” *Abstracts Papers Amer. Chem. Soc.* **2016**, 251.
16. Abergel RJ, Yakovlev I, An DD “Fine-tuning ligand platforms for specific recognition of actinides in solution” *Abstracts Papers Amer. Chem. Soc.* **2016**, 251.
17. Abergel RJ “Biological chemistry of f-elements: From decontamination to targeted radiotherapy” *Abstracts Papers Amer. Chem. Soc.* **2017**, 253.
18. Ricano A, Captain I, Deblonde GJP, Abergel RJ “Peptoid ligands: Bioinspired chelators for lanthanide and actinide complexation” *Abstracts Papers Amer. Chem. Soc.* **2017**, 253.
19. Deblonde GJP, An DD, Rupert PB, Strong RK, Abergel RJ “Hydropyridinonate ligands: From iron (III) to berkelium (IV) chemistry” *Abstracts Papers Amer. Chem. Soc.* **2017**, 253.
20. Abergel RJ, Deblonde GJP, Captain I, Agbo P, Ricano A, An DD “Actinide coordination with bio-inspired ligands: A bridge between fundamental f-element chemistry and new therapeutic drug development” *Abstracts Papers Amer. Chem. Soc.* **2017**, 253.
21. Hudson M, Deblonde GJP, Abergel RJ, Biros S “Recovery and recycling of Pu-238 in spent nuclear fuel to increase the sustainability of nuclear reactors using extraction and luminescence techniques” *Abstracts Papers Amer. Chem. Soc.* **2017**, 253.
22. Abergel RJ, Deblonde GJP, Rees JA, Booth CH, de Jong WA, Strong RK “Chelation past curium: Exploring trends in f-orbital bonding” *Abstracts Papers Amer. Chem. Soc.* **2017**, 254.
23. Rees JA, O’Sullivan S, Abergel RJ “Bio-inspired peptoid chelators for imaging and targeted alpha therapy” *Abstracts Papers Amer. Chem. Soc.* **2018**, 255. (Published March 2018)
24. Shield K, Deblonde GJP, Abergel RJ “f-Element Solvent Extractions: A Microscale Study” *Transactions* **2018**, 119, 103-105. (Published November 2018)
25. Booth C, Deblonde GJP, Moreau L, Rees JA, Abergel RJ “Bonding in the actinide series: Using EXAFS to systematically probe coordination compound structures of Th through Cf” *Abstracts Papers Amer. Chem. Soc.* **2019**, 257. (Published March 2019)
26. Abergel RJ, An DD, Lakes AL, Deblonde GJP, Rees JA, Gauny SS, Sridharan D “Targeted radionuclide therapy: The promise of short-lived alpha-emitting actinides” *Abstracts Papers Amer. Chem. Soc.* **2019**, 257. (Published March 2019)
27. Prebys E, Abergel RJ, Casey W, Cebra D “Development of 211-Astatine Production in the Crocker Nuclear Laboratory Cyclotron” *FERMILAB-CONF-19-449-APC* **2019**. (Published June 2019)
28. Carter KP, Jian J, Pyrch M, Forbes T, deJong W, Gibson J, Abergel RJ “Condensed and gas phase coordination chemistry of bioinspired chelators with early actinides” *Abstracts Papers Amer. Chem. Soc.* **2019**, 258. (Published August 2019)

Non-Refereed Articles in Archival Journals

1. Abergel RJ “How Heavy Will We Get?” *Nat. Chem.* **2019**, *11*, 1075.
2. Abergel RJ and Kozimor SA “Innovative f-Element Chelating Strategies” *Inorg. Chem.* **2020**, *59*, 4-7.

Non-Refereed Reports

1. Phelps C, Myhre K, Greene J, Abergel RJ, Ezold J, Gregorich K, Henderson R, Mirzadeh S, Stracener D, Stoyer M, Zach M, Lewis B “Californium Rare Isotope Breeder Upgrade (CARIBU) Source Production Method Development” *LLNL-TR-814629* **2020**. (Published September 2020).
2. Abergel RJ, Adams P, Antonopoulos D, Babnigg G, Baker S, Bedinger D, Borucki M, Bradfute SB, Bunt T, Daum C, Fitch JP, Gerbasi V, Gilna P, Graham D, Guarnieri M, Hall S, Hillson N, Hong-Geller E, Hura G, Jaing C, Jha RK, Joachimiak A, Kamel B, Kimbrel J, Lillo AM, Mangadu B, Meagher R, Moon J, Mouncey N, Morrison M, Mulakken N, Nguyen HTB, Nilsen-Hamilton M, Omberg K, O'Neal H, Parks J, Pasa-Tolic L, Pennacchio C, Rakestraw D, Retterer S, Salit M, Simmons B, Singh A, Sustarich J, Thissen J, Velappan N, Waldo GS, Williams K, Wilson J, Ye C, Young M, Yoshinaga Y, Zhou M “COVID-19 Testing R&D Final Report” *LA-UR-21-26450* **2021**. (Published July 2021).

Non-Refereed Articles in Non-Archival Magazines or Journals

1. Abergel RJ “Les futurs agents chélatants sont déjà là” *Biofutur* **2014**, *353*, 47.

Books/Refereed Chapters in Books

1. Choi TA, Costes SV, Abergel RJ Understanding the Health Impacts and Risks of Exposure to Radiation. **2014** In *Reflections on the Fukushima Daiichi Nuclear Accident*, Springer, J. Ahn et al. (eds.), DOI 10.1007/978-3-319-12090-4_13.
2. Abergel RJ Chelation of Actinides. **2016** In *Metal Chelation in Medicine*, Royal Society of Chemistry: Series Metallobiology, R. Crichton et al. (eds.), DOI:10.1039/9781782623892-00183.
3. Agbo P, Rees JA, Abergel RJ Actinide Biological Inorganic Chemistry: The Overlap of 5f Orbitals with Biology. **2018** In *Experimental and Theoretical Approaches to Actinide Chemistry: From Fundamental Systems to Practical Applications*, John Wiley & Sons Ltd., JK Gibson and WA de Jong (eds.), pp 445-489. (Published January 2018)
4. Abergel RJ The Biological Chemistry of Pu Exposure and Decorporation in Man and Animals. **2019** In *Plutonium Handbook, 2nd edition*, American Nuclear Society, D Clark et al. (eds.).

Patents

1. Abergel RJ, Corneillie T, Raymond KN Siderophore Functionalization and Bioconjugation: A Tool for Rapid Anthrax Detection. **2007** U.S. Provisional Patent Application No.: 60/950,005.
2. Durbin-Heavey PW, Raymond KN, Abergel RJ, Shuh DK Combination Treatment of Hydroxypyridonate Actinide/Lanthanide Decorporation Agents. **2010** International Utility Patent Filing Application Serial No.: 61/176,866.
3. Raymond KN, Abergel RJ, Shuh DK “Combination Treatment of Hydroxypyridonate Actinide/ Lanthanide Decorporation Agents” **2012** U.S. Patent Publication No. US 2012/0214843 (August 2012), U.S. Patent Application No. PCT/US2010/034266 (May 2010).
4. Agbo P, Abergel RJ “Ligand-Sensitized Lanthanide Nanocrystals as Ultraviolet Downconverters” **2016** U.S. Patent Publication No. US 2017/0298272 (October 2017), U.S. Patent Application No. 15/442,441 (February 2017). **2021** US Patent No. 10,982,136 (April 2021).
5. Abergel RJ, Deblonde GJP “Formulations and Treatments Employing Hydroxypyridonate Actinide/Lanthanide Decorporation Agents” **2017** World Patent Publication No. WO 2017/192581 (November 2017), International Application No. PCT/US2017/030628 (May 2017), US Patent Application No. 16/097,782 (June 2019).
6. Abergel RJ, Raymond KN, Shuh DK, Choi TA “Formulations of Hydroxypyridonate Actinide/Lanthanide Decorporation Agents” **2018** World Patent Publication No. WO 2018/048812 (March 2018), International Application No. PCT/US2017/050121 (September 2017), US Patent Application No. 16/330,601 (September 2021).

7. Abergel RJ, Deblonde GJP, Strong RK, Ricano A “Separation of Metal Ions by Liquid-Liquid Extraction” **2018** World Patent Publication No. WO 2018/097871 (May 2018), International Application No. PCT/US2017/048934 (August 2017), US Patent Application No. 16/365,132 (September 2019).
8. Strong RK, Rupert P, Abergel RJ, Captain I, Deblonde GJP “Chelating Platform for Delivery of Radionuclides” **2018** World Patent Publication No. WO/2018/044812 (March 2018), International Application No. PCT/US20 17/048954 (August 2017), US Patent Application No. 16/329,178 (June 2019). **2022** US Patent No. 11,235,076 (February 2022).
9. Abergel RJ, Rees J, Strong RK, Captain I “Chelating Molecules” **2018** World Patent Publication No. WO/2018/063638 (April 2018), International Application No. PCT/US2017/048910 (August 2017), US Patent Application No. 16/336,665 (January 2021).
10. Pallares RM, Abergel RJ “Synthesis of gold nanoparticles functionalized with hydroxypyridinone chelators for metal sensing” **2021** U.S. Patent Application No. 17/154,317 (September 2021).

Regulatory Filings to Food and Drug Administration

1. Abergel RJ Investigational New Drug 112,264: Actinide Decorporation agent: 3,4,3-LI(1,2-HOPO) (August 2014).
2. Abergel RJ Pre-Investigational New Drug Application 112,264: Actinide Decorporation agent: 3,4,3-LI(1,2-HOPO) (April 2013).
3. Abergel RJ Pre-Investigational New Drug Application 112,262: Actinide Decorporation agent: 5-LIO(Me-3,2-HOPO) (April 2013).

Oral Presentations

Invited

1. *11th International Conference on f-Elements 2023, Strasbourg, France (August 2023, Plenary)*
2. *American Chemical Society Annual Fall Meeting, San Francisco, CA, USA (August 2023)*
3. *2023 Upconverting Nanoparticles Gordon Research Conference, Waterville Valley, NH, USA (June 2023)*
4. *UCLA Chemistry Department Seminar, Los Angeles, CA (May 2023)*
5. *2023 Materials Research Society Spring Meeting and Exhibit, San Francisco, CA, USA (April 2023)*
6. *Colorado School of Mines Nuclear Science Department Seminar, Golden, CO (March 2023)*
7. *Technical University of Munich – Pharmaceutical Chemistry & Radiochemistry Symposium, Germany (Dec 2022)*
8. *5th Asian Congress of Radiation Research, Mumbai, India (November 2022, Plenary)*
9. *Simon Fraser University – Chemistry Department Seminar, Vancouver, Canada (November 2022)*
10. *University of British Columbia – Lectures in Modern Chemistry, Vancouver, Canada (November 2022)*
11. *Plutonium Futures – The Science 2022 Conference, Avignon, France (September 2022)*
12. *UC Berkeley Nanosciences and Nanoengineering Institute, Nano Seminar Series, Berkeley, CA (September 2022)*
13. *UC Berkeley - Kenneth N. Raymond Lecture in Inorganic Chemistry, Berkeley, CA (September 2022)*
14. *American Chemical Society Annual Fall Meeting, Chicago, IL, USA (August 2022)*
– Symposium: Medicinal Inorganic Chemistry: Walking the Walk from Innovation to Clinical Translation
15. *ACS Nuclear Chemistry Summer School (SJSU) - Berkeley Lab Introduction, Berkeley, CA, USA (July 2022)*
16. *2022 Metals in Medicine Gordon Research Conference, Proctor Academy, NH, USA (June 2022)*
17. *Berkeley Lab Foundation Advisory Board Meeting, Virtual Meeting (April 2022)*
18. *Florida International University – Chemistry Department Seminar, Miami, FL, USA (Apr 2022)*
19. *American Chemical Society Spring Annual Meeting, San Diego, CA, USA (March 2022))*
– Symposium: Energy-Efficient Chemical Separations Through 21st Century Scientific Capabilities:
20. – Symposium: Rare Earth Separations From Fundamentals to Advanced Processes: Non-Conventional Approaches
21. *Critical Materials Institute – FA4 Area Seminar, Virtual Teams Series (February 2022)*
22. *International Chemical Congress of Pacific Basin Societies (Pacifichem) 2021, Virtual Meeting (December 2021)*
– Symposium: Frontiers in Actinide Chemistry: From Fundamental Systems to Practical Applications
23. – Symposium: Innovative New Chemistry for MRI Contrast
24. – Symposium: Advancements in the Chemistry of Targeted Alpha Therapy

25. – Symposium: Energy-Related Materials in the Age of Globalization
26. KAIST International Webinar – Main Group Chemistry, *Virtual Zoom Series* (November 2021)
27. SLAC Critical Materials Workshop, *Virtual Zoom Series* (November 2021)
28. 67th Annual Meeting of the Radiation Research Society, *Virtual Meeting* (October 2021, Presidential Symposium)
29. DOE Isotope Program Pb-212 User Meeting, *Virtual Zoom Series* (August 2021)
30. DOE Isotope Program Ac-225 User Meeting, *Virtual Zoom Series* (August 2021)
31. Berkeley Lab Advanced Light Source User Meeting, *Virtual Zoom Meeting* (August 2021)
32. Berkeley Lab Molecular Foundry User Meeting, *Virtual Zoom Meeting* (August 2021, Plenary)
33. ACS Nuclear Chemistry Summer School Seminar, *Virtual Zoom Series* (Jun 2021)
34. Idaho National Laboratory – Energy Frontiers Seminar, *Virtual Teams Series* (May 2021)
35. University of Massachusetts Lowell – Physics Department Seminar, *Virtual Zoom Series* (Apr 2021)
36. UK-US Academic Network in Nuclear Security and Nonproliferation Skills, *Virtual Zoom Series* (Apr 2021)
37. Angular Momentum, *Virtual Zoom Series* (Feb 2021)
38. Knox College - Chemistry Department Seminar, *Virtual Zoom Series* (Jan 2021)
39. UC Berkeley Chemistry Department - Inorganic Chemistry Seminar, *Virtual Zoom Series* (Oct 2020)
40. San Jose State University - Chemistry Department Seminar, *Virtual Zoom Series* (Sept 2020)
41. Texas A&M University - Nuclear Eng. Department Rothrock Lecture Series, *Virtual Webex Series* (Sept 2020)
42. TRIUMF Science Week, TRIUMF, Vancouver, BC, Canada, *Virtual Zoom Conference* (August 2020)
43. Lawrence Berkeley National Laboratory, Charter Hill Symposium, *Virtual Zoom Series* (July 2020)
44. UC Berkeley Comparative Biochemistry Program Seminar, Berkeley, CA, USA (November 2019)
45. Basic Energy Sciences Advisory Committee (BESAC) Subcommittee Meeting, Washington, DC, USA (Nov 2019)
46. 65th Annual Meeting of the Radiation Research Society, San Diego, CA, USA (November 2019)
47. 2019 SACNAS - National Diversity in STEM Conference, Honolulu, HI, USA (October 2019)
48. Global 2019 International Nuclear Fuel Cycle Conference, Seattle, WA, USA (September 2019)
49. University of Tennessee, Knoxville – Nuclear Engineering Department Seminar, Knoxville, TN, USA (Sept 2019)
50. Molecular Foundry User Meeting, Lawrence Berkeley National Lab, Berkeley, CA, USA (August 2019, Plenary)
51. Oak Ridge National Laboratory Targeted Radiotherapy Workshop, Oak Ridge, TN, USA (July 2019)
52. 29th International Conference on Photochemistry, Boulder, CO, USA (July 2019, Keynote)
53. 64th Annual Meeting of the Health Physics Society, Orlando, FL, USA (July 2019)
54. NerdNite San Francisco, San Francisco, CA, USA (July 2019)
55. Bayer AS Thorium Research Invited Seminar, Oslo, Norway (June 2019)
56. 2019 Annual Meeting of Society of Nuclear Medicine and Molecular Imaging, Anaheim, CA, USA (June 2019)
57. KAIST - Nuclear & Quantum Engineering Department Annual Pioneer Lecture, Daejeon, Korea (May 2019)
58. University of California at Davis - Physics Department Seminar, Davis, CA, USA (May 2019)
59. George Washington University - Chemistry Department Seminar, Washington, DC, USA (April, 2019)
60. Brookhaven National Laboratory - Accelerator Physics Division Seminar, Upton, NY, USA (March 2019)
61. Stony Brook University - Chemistry Department Seminar, Stony Brook, NY, USA (March 2019)
62. 257th American Chemical Society Annual Meeting, Orlando, FL, USA (March 2019)
63. UC San Francisco Advanced Imaging Technologies SRG Seminar, San Francisco, CA (December 2018)
64. Lawrence Berkeley National Laboratory, Nuclear Sciences Division Colloquium, Berkeley, CA (November 2018)
65. 4th Int. Workshop on Advanced techniques in Actinide Spectroscopy, Nice, France (November 2018, Plenary)
66. Massachusetts Institute of Technology Lab for Nuclear Security and Policy Seminar, Cambridge, MA (Oct 2018)
67. American Vacuum Society 65th International Symposium and Exhibition, Long Beach, CA (October 2018)
Presentation Invited in "Current and Future Stars of the AVS Symposium".
68. 21st Pacific Basin Nuclear Conference (PBNC) and Technology Exhibition, San Francisco, CA (October 2018)
69. 2018 Lawrence Berkeley National Laboratory Advisory Board Meeting, Berkeley, CA, USA (October 2018)
70. 64th Annual Meeting of the Radiation Research Society, Chicago, IL, USA (September 2018)
71. Plutonium Futures – The Science 2018 Conference, San Diego, CA, USA (September 2018)
72. 10th International Conference on f-Elements 2018, Lausanne, Switzerland (September 2018, Keynote)
73. 43rd International Conference of Coordination Chemistry, Sendai, Japan (August 2018, Keynote)
74. Lawrence Livermore National Laboratory - Glenn T. Seaborg Institute Seminar, Livermore, CA (July 2018)

75. 2018 Annual Meeting of Society of Nuclear Medicine and Molecular Imaging, Philadelphia, PA, USA (June 2018)
76. Oak Ridge National Laboratory – Director’s Seminar, Oak Ridge, TN (May 2018)
77. 12th Congress of the World Federation of Nuclear Medicine and Biology, Melbourne, Australia (April 2018)
78. 2018 Materials Research Society Spring Meeting and Exhibit, Phoenix, AZ, USA (April 2018)
79. 255th American Chemical Society Annual Meeting, New Orleans, LA, USA (March 2018)
80. 2018 Mid-Winter Meeting of Society of Nuclear Medicine and Molecular Imaging, Orlando, FL, USA (Jan 2018)
81. SF Chapter of the American Association of Physicists in Medicine Annual Meeting, Walnut Creek, CA (Oct 2017)
82. American Vacuum Society 64th International Symposium and Exhibition, Tampa, FL (October 2017)
83. 63rd Annual Meeting of the Radiation Research Society, Cancun, Mexico (October 2017)
84. 2017 World Chemical Summit, Barcelona, Spain (October 2017)
85. 254th American Chemical Society Annual Meeting, Washington, DC, USA (August 2017)
86. 2017 Rare Earth Research Conference, Ames, IA, USA (June 2017)
87. Commissariat à l’Énergie Atomique 2017 Speciation Seminar, Avignon, France (June 2017)
88. International Symposium on Metal Complexes (ISMEC 2017), Dijon, France (June 2017)
89. RWTH Aachen University Chemistry Department Seminar, Aachen, Germany (June 2017)
90. UC Berkeley Nuclear Engineering Department Colloquium, Berkeley, CA, USA (April 2017)
91. 253rd American Chemical Society Annual Meeting, San Francisco, CA, USA (April 2017)
92. Fordham University Chemistry Department Seminar, New York, NY (March 2017)
93. University of Wisconsin Madison, Medical Physics Department Seminar, Madison, WI (February 2017)
94. Los Alamos National Laboratory – Chemistry Division Colloquium, Los Alamos, CA (October 2016)
95. Berkeley Center for Structural Biology Group Meeting, Berkeley, CA (October 2016)
96. Colorado School of Mines Chemistry Department Seminar, Golden, CO (October 2016)
97. Plutonium Futures – The Science 2016 Conference, Baden-Baden, Germany (September 2016)
98. Northern California Chapter-Health Physics Society Technical Seminar, Emeryville, CA (September 2016)
99. TEDxParis, Paris, France (September 2016)
100. Lawrence Livermore National Laboratory - Glenn T. Seaborg Institute Seminar, Livermore, CA (September 2016)
101. Florida State University Chemistry Department - Inorganic Seminar, Tallahassee, FL, USA (August 2016)
102. 2016 Molecular Foundry User Meeting, Berkeley, CA, USA (August 2016)
103. 2016 Inorganic Chemistry Gordon Research Conference, Biddeford, ME (June 2016)
104. TEDxMinesNancy, Nancy, France (May 2016)
105. 2016 Materials Research Society Spring Meeting and Exhibit, Phoenix, AZ, USA (March 2016)
106. 251st American Chemical Society Annual Meeting, San Diego, CA, USA (March 2016)
107. Lawrence Berkeley National Laboratory Nuclear Physics Forum, Berkeley, CA, USA (January 2016)
108. International Chemical Congress of Pacific Basin Societies (Pacifichem) 2015, Honolulu HI (December 2015)
109. Lawrence Berkeley National Laboratory Life Sciences Seminar Series, Berkeley, CA, USA (November 2015)
110. University of Nevada Reno Chemistry Department, Reno, NV, USA (October 2015)
111. French Society for Radiological Protection Workshop on Internal Contamination, Paris, France (October 2015)
112. 11th Annual Symposium on Metals in Biological Systems, Duquesne University, Pittsburgh, PA (Sept 2015)
113. University of Notre Dame Center for Sustainable Energy, Notre Dame, IN, USA (September 2015)
114. 61st Annual Meeting of the Radiation Research Society, Weston, FL (September 2015)
 - Symposium: Intake of radionuclides – consequences and dosimetry
 - Symposium: Radiation effects and the environment
115. 9th International Conference on f-Elements 2015, Oxford, UK (September 2015)
117. TEDxAix, Aix en Provence, France (May 2015)
118. NorCal Society of Toxicology Spring Symposium, South San Francisco, CA, USA (April 2015)
119. UC Berkeley Chemistry Department - Inorganic Chemistry Seminar, Berkeley, CA, USA (April 2015)
120. 249th American Chemical Society Annual Meeting, Denver, CO, USA (March 2015)
121. International Workshop on Nuclear Safety, Berkeley, CA, USA (March 2015)
122. Université de Nice Sophia Antipolis, Institut de Chimie de Nice, Nice, France (March 2015)
123. 2015 CBRN Research and Innovation Conference, Juan-les-Pins, France (March 2015)

124. Commissariat à l'Énergie Atomique, Saclay, France (December 2014)
125. LBNL Molecular Foundry Seminar, NanoBio Series, Berkeley, CA, USA (December 2014)
126. Lovelace Respiratory Research Institute, Research Seminar Series, Albuquerque, NM, USA (November 2014)
127. U. Houston, CHEM Lecture on Safety and Risks in the Age of Nuclear Power, Houston TX, USA (Nov 2014)
128. Science at the Theater – Eight Big Ideas, Oakland, CA, USA (October 2014)
129. 2014 Advanced Light Source User Meeting, Berkeley, CA, USA (October 2014)
130. ALS Chemical Sciences Seminar Series, Berkeley, CA, USA (July 2014)
131. LBNL Undergraduate Internship Brown Bag Seminar Series, Berkeley, CA, USA (July 2014)
132. 2014 Rare Earth Research Conference, Squaw Valley, NV, USA (June 2014)
133. MIT TR35 – France, Paris, France (April 2014)
134. Institut de Radioprotection et Sûreté Nucléaire, Fontenay-aux-Roses, France (April 2014)
135. Mission College Women in STEM Panel, Santa Clara, CA, USA (March 2014)
136. 247th American Chemical Society Annual Meeting, Dallas, TX, USA (March 2014)
137. LBNL All-hands Operations Meeting, Berkeley, CA, USA (December 2013)
138. Science at the Theater – Eight Big Ideas, Berkeley, CA, USA (October 2013)
139. UC Berkeley Nuclear Engineering Department Colloquium, Berkeley, CA, USA (April 2013)
140. BARDA/NIAID Symposium, Bethesda, MD, USA (January 2013)
141. LBNL Radiation Protection Group Seminar, Berkeley, CA, USA (October 2012)
142. US DOE Site Occupational Medical Directors Meeting, Berkeley, CA, USA (October 2012)
143. Commissariat à l'Énergie Atomique 2012 Speciation Seminar, Montpellier, France (May 2012)
144. Institut de Radioprotection et Sûreté Nucléaire, Fontenay-aux-Roses, France (September 2011)
145. Commissariat à l'Énergie Atomique Nuclear Toxicology Summer School, Giens, France (June 2011)
146. 20th International Conference on Chelation, Grand Rapids, MI, USA (October 2010)
147. Commissariat à l'Énergie Atomique Decorporation Workshop, Fontenay aux Roses, France (October 2009)
148. Joint BioEnergy Institute Seminar, Emeryville, CA, USA (July 2008)

Contributed

149. Nuclear Energy University Program – Aqueous Separations DoE Contractor's Meeting, *Virtual* (August 2021)
150. Separations DoE Contractor's Meeting, *Virtual Meeting* (August 2021)
151. 11th International Symposium on Targeted Therapy, Ottawa, Canada (April 2019)
152. Heavy Element Chemistry and Separations DoE Contractor's Meeting, Gaithersburg, MD, USA (April 2019)
153. Heavy Element Chemistry and Separations DoE Contractor's Meeting, Gaithersburg, MD, USA (April 2015)
154. LBNL Leadership Development Program, Berkeley, CA, USA (October 2014)
155. 248th American Chemical Society Annual Meeting, San Francisco, CA, USA (August 2014)
156. LBNL - UC Berkeley Research Opportunities in Fukushima Workshop, Berkeley, CA, USA (October 2013)
157. 11th Int Conference on the Health Effects of Incorporated Radionuclides, Berkeley, CA, USA (October 2013)
158. LBNL Opportunities in Heavy Element Chemistry and Materials Workshop, Berkeley, CA, USA (Sept 2013)
159. 4th International Symposium on Metallomics, Oviedo, Spain (July 2013)
160. 245th American Chemical Society Annual Meeting, New Orleans, LA, USA (April 2013)
161. 2012 Materials Research Society Spring Meeting and Exhibit, San Francisco, CA, USA (April 2012)
162. 243rd American Chemical Society Annual Meeting, San Diego, CA, USA (March 2012)
163. 7th International Biomaterials Symposium, Tucson, AZ, USA (July 2010)
164. 19th International Conference on Chelation, London, UK (November 2009)
165. 10th Int Conference on the Health Effects of Incorporated Radionuclides, Santa Fe, NM, USA (May 2009)
166. 18th International Conference on Chelation, Athens, Greece (December 2008)
167. 235th American Chemical Society National Meeting, New Orleans, LA, USA (April 2008)
168. 1st International Conference on Recent Advances in Health and Medical Sciences, Paphos, Cyprus (Mar 2008)
169. 37th International Conference of Coordination Chemistry, Cape Town, South Africa (August 2006)
170. Gordon Research Conference "Metals in Medicine", Colby College, ME, USA (June 2004)