

WRM 2022 Author List

Author List								
ID	Type	Author(s)	Title	Institution(s)	Date	Time	Room	Session
243	Poster	Abbey, Eric	Crystalline PPN organoborohydrides: Ditching the metal allows other non-covalent solid-state interactions to shine	Eastern Washington University	Fri 10/21	5:00 PM–9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
348	Oral	Abdulla, Hussain Bergmann, D. Elliott, J.	Toward more comprehensive chemical characterization of dissolved organic matter by coupling liquid chromatography and ion chromatography with Orbitrap fusion mass spectrometer	Texas A and M University–Corpus Christi	Sat 10/22	4:00 PM–4:30 PM	Red Rock 7	WRM015E: Novel Applications in Mass Spectrometry II
315	Oral	Aboyie, Getnet	Mechanochemical approach for alginate modification	Colorado State University	Sat 10/22	11:06 AM–11:24 AM	Red Rock 3	WRM021E: Recent Trends in Polymer Chemistry and Sustainable Materials V
12	Oral	Alam, Maksudul Bhowmik, P.K.	Enhanced thermal properties of composite phase change liquids with ionic compounds	InnoSense LLC	Thu 10/20	12:30 PM–1:00 PM	Lake Mead 1	WRM013B: Inorganic and Materials Chemistry I
349	Oral	Alam, Maksudul Bhowmik, P.K.	Highly stable anion exchange ionic-polymer membranes for hydrogen generators in alkaline aqueous electrolytes	InnoSense LLC	Sat 10/22	1:30 PM–1:48 PM	Red Rock 3	WRM021F: Recent Trends in Polymer Chemistry and Sustainable Materials VI
354	Oral	Alam, Maksudul Paranthaman, P.M.	Insulating copolymer and metal-oxide nanoparticle composites as radiation-resistant electrical insulators	InnoSense LLC	Sat 10/22	3:30 PM–3:48 PM	Red Rock 3	WRM021F: Recent Trends in Polymer Chemistry and Sustainable Materials VI
154	Oral	Alam, Maksudul Manankandayalage, C. Mushfiq, M. Panja, P. Deo, M.D.	Robust and highly permeable composite polymer membranes for direct air capture of CO ₂	InnoSense LLC	Fri 10/21	9:00 AM–9:30 AM	Red Rock 5	WRM024A: Vapor Intrusion, Environment Preservation and Human Health
23	Oral	Alden, David	Pilot scale in situ treatment of chlorinated solvent source zone – treatment performance and injection design assessed with compound-specific isotope analysis (CSIA)	Tersus Environmental, LLC	Thu 10/20	11:52 AM–12:14 PM	Red Rock 7	WRM025A: Water Contamination, Treatment, Reliability & Reuse PFAs and other Emerging Contaminants I
191	Poster	Allard, Marco	Plastic based chemical reactor to study pseudo-first order and 2nd order degradation of methyl-green under basic conditions	La Sierra University	Fri 10/21	1:00 PM–5:00 PM	Carson City 1&2	WRM010B: General Poster Session 2 (Environmental Chemistry, Energy Storage, Education)
195	Oral	Almolhim, Hanan Carlier, P.R. Cassera, M. Totrov, M. Rizopoulos, Z.	Antimalarial activity of enantiopure tetrahydro- β -carboline benzofuran carboxamides	Virginia Polytechnic Institute and State University	Fri 10/21	3:30 PM–3:58 PM	Lake Mead 2	WRM003A: Biochemistry of COVID and Other Infectious Diseases
7	Oral	Alvelais, Rachel Heyduk, A.F.	Synthetic approaches for tuning the thermodynamics of ligand-centered proton-coupled electron transfer reactions	University of California Irvine	Thu 10/20	10:00 AM–10:30 AM	Lake Mead 1	WRM013B: Inorganic and Materials Chemistry I
166	Poster	An, Geon-Hyung	Flexible energy storage devices enabling high energy densities and ultralong-life	Gyeongsang National University; Gyeongsang National University	Fri 10/21	1:00 PM–5:00 PM	Carson City 1&2	WRM010B: General Poster Session 2 (Environmental Chemistry, Energy Storage, Education)
292	Oral	Angermann, Jeff	Tales of fails: Practical implications of microbiological stringency in Nevada's cannabis industry	374 Labs	Sat 10/22	10:52 AM–11:14 AM	Red Rock 5	WRM009A: Emerging Research in Cannabis Science I
263	Poster	ash, Jeff	Selective deprotection of phosphorus (V) compounds to form monosubstituted organophosphorous acids	University of Nevada Las Vegas	Fri 10/21	5:00 PM–9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
39	Oral	Babayans, Nicole Melikyan, G.G.	Acquiring a predictive power in cobalt-assisted, acid-induced C–C bond forming reactions	California State University Northridge	Thu 10/20	2:24 PM–2:46 PM	Red Rock 4	WRM012E: Innovating Organometallics I
172	Poster	Bailey, Marguerite Wald, Elliot	Metal-oxide photovoltaic cells synthesized using materials abundant in the Martian regolith	Carroll College; Montana Space Grant Consortium Carroll College; Montana Space Grant Consortium	Fri 10/21	1:00 PM–5:00 PM	Carson City 1&2	WRM010B: General Poster Session 2 (Environmental Chemistry, Energy Storage, Education)
245	Poster	Bains, Amreen	Redox-active ligand catalyzed borrowing-hydrogen reactions via hydrogen atom transfer	Colorado State University	Fri 10/21	5:00 PM–9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
10	Oral	Balto, Krista Figueroa, J.S.	Mixed-metal coordination networks enabled by a heteroditopic linker group	University of California San Diego	Thu 10/20	11:30 AM–12:00 PM	Lake Mead 1	WRM013B: Inorganic and Materials Chemistry I
203	Oral	Bandar, Jeffrey	Merging base-promoted metalation with halogen transfer for new C–H functionalization reactions	Colorado State University	Fri 10/21	1:35 PM–2:00 PM	Red Rock 4	WRM012B: Innovating Organometallics III
121	Oral	Bandodkar, Amay	Unconventional biochemical sensors and energy devices for applications in wearables and neuro-engineering	NC State University	Fri 10/21	11:00 AM–11:30 AM	Red Rock 7	WRM006A: Chemical Sensors with a Focus on Wearables and Health Related Measurements I

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280	Oral	Barakat, Sabrina Orgill, M.	Variation theory: A useful theoretical framework for investigating the teaching and learning of chemistry	University of Nevada Las Vegas	Sat 10/22	8:57 AM–9:18 AM	Red Rock 8	WRM001A: Advances in Undergraduate Chemistry Education Amid Challenging Times I
318	Oral	Barbera, Jack Naibert, N.	Design and evaluation of a measure of student engagement in active learning activities	Portland State University	Sat 10/22	1:36 PM–1:57 PM	Red Rock 8	WRM001E: Advances in Undergraduate Chemistry Education Amid Challenging Times II
279	Oral	Barbera, Jack Harshman, J. Komperda, R.	Building assessment capacity in chemistry education – the chemistry instrument review and assessment Library (chiral) project	Portland State University	Sat 10/22	8:36 AM–8:57 AM	Red Rock 8	WRM001A: Advances in Undergraduate Chemistry Education Amid Challenging Times I
69	Oral	Barker, Charlotte Weyhrich, C.W. Chase, T. Long, T.E.	Structure property relationships of unsaturated polyesters for additive manufacturing	Arizona State University	Thu 10/20	4:45 PM–5:03 PM	Red Rock 3	WRM021B: Recent Trends in Polymer Chemistry and Sustainable Materials II
317	Oral	Barnes, Adeline Van, B.A.	Uniquely microstructured copolymers of epsilon-Caprolactone and TOSUO monomer from organic catalysis	College of Charleston	Sat 10/22	11:42 AM–12:00 PM	Red Rock 3	WRM021E: Recent Trends in Polymer Chemistry and Sustainable Materials V
68	Oral	Bean, Ren Wen, J. Long, T.E.	Lithographic 3D printing block and segmented copolymers	Arizona State University	Thu 10/20	4:27 PM–4:45 PM	Red Rock 3	WRM021B: Recent Trends in Polymer Chemistry and Sustainable Materials II
342	Oral	Benner, Florian Peng, Z. Demir, S.	From super exchange to direct coupling in lanthanide complexes	Michigan State University	Sat 10/22	3:50 PM–4:10 PM	Red Rock 6	WRM014B: Molecular Magnetism for the Advancement of Quantum Information Science II
340	Oral	Bernbeck, Maximilian Orlova, A. Hilgar, J. Rinehart, J.D.	Big things in small packages: Using dipolar coupling to dramatically extend molecular magnet relaxation times	University of California San Diego	Sat 10/22	2:20 PM–2:40 PM	Red Rock 6	WRM014B: Molecular Magnetism for the Advancement of Quantum Information Science II
309	Oral	Bernsten, Simone Miyake, G.	Photoinduced organocatalyzed vinyl addition polymerization of α -methylene- δ -valerolactone	Colorado State University	Sat 10/22	8:48 AM–9:06 AM	Red Rock 3	WRM021E: Recent Trends in Polymer Chemistry and Sustainable Materials V
253	Poster	Berrios, Meekaela	Electrophilic ring opening of substituted 1-arylbicyclo[3.1.0]hexanes	California Polytechnic State University	Fri 10/21	5:00 PM–9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
17	Oral	Bhowmik, Pradip Han, H. King, D.	Recent advances in ionenes: Synthesis, properties, and applications of poly(pyridinium salt)s	University of Nevada Las Vegas	Thu 10/20	12:00 PM–12:30 PM	Red Rock 3	WRM021A: Recent Trends in Polymer Chemistry and Sustainable Materials I
51	Oral	Biswas, Atanu Cheng, H. Sharma, B.	Novel industrial applications of vegetable oil	USDA Agricultural Research Service	Thu 10/20	5:00 PM–5:30 PM	Lake Mead 1	WRM013E: Inorganic and Materials Chemistry II
283	Oral	Blaser, Mark	The AHA! chemistry project: Improving learning outcomes for all general chemistry students through adaptive hybrid courses	Shasta College	Sat 10/22	10:30 AM–10:51 AM	Red Rock 8	WRM001A: Advances in Undergraduate Chemistry Education Amid Challenging Times I
347	Oral	Boiteau, Rene Dewey, C. Coffey, N. Bright, P. Alvarez, M. Corilo, Y. Kew, W.	A mass spectrometry window into marine trace element cycling	Oregon State University; Pacific Northwest National Laboratory	Sat 10/22	3:30 PM–4:00 PM	Red Rock 7	WRM015E: Novel Applications in Mass Spectrometry II
240	Oral	Bolliger, Jeanne	C–H bond functionalization as tool for the synthesis of tricyclic heteroarenes	Oklahoma State University The College of Arts and Sciences	Fri 10/21	3:55 PM–4:20 PM	Red Rock 6	WRM020E: Recent Breakthroughs in Organic Chemistry
45	Oral	bone, kendelyn	Nucleophilic C–H hydroxylation of arenes enabled by base-catalyzed halogen transfer	Colorado State University	Thu 10/20	5:06 PM–5:28 PM	Red Rock 4	WRM012E: Innovating Organometallics I
307	Oral	Borotto, Nicholas	Collision induced dissociation of intact protein ions within a trapped ion mobility device	University of Nevada Reno	Sat 10/22	11:00 AM–11:30 AM	Red Rock 7	WRM015C: Novel Applications in Mass Spectrometry I
63	Oral	Bowman, Christopher	Using light to make thermoplastic-like materials with advanced capabilities	University of Colorado Boulder	Thu 10/20	2:00 PM–2:27 PM	Red Rock 3	WRM021B: Recent Trends in Polymer Chemistry and Sustainable Materials II
288	Oral	Bramante, Julia	The Cannabis Chemistry Subdivision: Creating a home for cannabis chemists at the American Chemical Society	Cannabis Chemistry Subdivision	Sat 10/22	8:54 AM–9:16 AM	Red Rock 5	WRM009A: Emerging Research in Cannabis Science I
26	Oral	Brown, Corina	Opportunities and Challenges: Reflections on equitable and inclusive practices in chemistry courses during and post pandemic times	University of Northern Colorado	Thu 10/20	2:50 PM–3:10 PM	Red Rock 8	WRM007E: Education During the COVID–19 Pandemic. A New Virtual reality and Preparing K–12 Students for a Future in STEM
161	Oral	Brown, James Islam, R. Ham, S. Lattimer, B. Qiao, R. Long, T.E.	Tailored self-assembly of silicon-based zwitterionic surfactants for firefighting foams	Arizona State University	Fri 10/21	9:38 AM–10:00 AM	Red Rock 8	WRM025C: Water Contamination, Treatment, Reliability & Reuse PFAs and other Emerging Contaminants II

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60	Oral	Brown, Michael Alex	Developing inorganic sorbents for radium and actinium separations	Argonne National Laboratory	Thu 10/20	4:54 PM–5:12 PM	Red Rock 5	WRM019A: Radiochemical Separations for Nuclear Forensics and Nuclear Medicine
100	Poster	Brown, Theodore	Determination of potential Acetylcholinesterase and Apolipoprotein E4 inhibitors through in silico molecular docking	Pomona College	Thu 10/20	4:00 PM–8:00 PM	Carson City 1&2	WRM010C: General Poster Session 1 (Biomedicine, Biotech, Biochem, Sensors & Applications)
296	Oral	Buchwald, Stephen	Copper–catalyzed hydrofunctionalization reactions	Massachusetts Institute of Technology	Sat 10/22	11:15 AM–12:00 PM	Red Rock 4	WRM012C: Innovating Organometallics IV
225	Oral	Burkart, Michael	Thermoplastic polyurethane from algae that are both renewable and biodegradable	University of California San Diego	Fri 10/21	2:15 PM–2:33 PM	Red Rock 3	WRM021D: Recent Trends in Polymer Chemistry and Sustainable Materials IV
335	Oral	Burke, Martin	Imagine a world where everyone can make molecules	University of Illinois Urbana–Champaign	Sat 10/22	3:30 PM–4:10 PM	Red Rock 4	WRM012D: Innovating Organometallics V
94	Poster	Calvo, Blake	Predicting steroid free remission and chemical interaction within IBD positive patients using computational methods	Chapman University System; Children's Hospital of Orange County	Thu 10/20	4:00 PM–8:00 PM	Carson City 1&2	WRM010C: General Poster Session 1 (Biomedicine, Biotech, Biochem, Sensors & Applications)
262	Poster	Campbell, William	Synthesis and fluorescent properties of n-alkyl-p-styrylpyridinium salts with different counterions	University of Nevada Las Vegas	Fri 10/21	5:00 PM–9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
95	Poster	Canizares–Macias, Maria	Paper–based microdevice to couple Carrez reagents in the simultaneous determination of antioxidant capacity and total polyphenols	Universidad Nacional Autonoma de Mexico	Thu 10/20	4:00 PM–8:00 PM	Carson City 1&2	WRM010C: General Poster Session 1 (Biomedicine, Biotech, Biochem, Sensors & Applications)
246	Poster	Castillo, Alex	Exploring reactions using heterogeneous frustrated Lewis pairs	University of South Dakota; Northern Arizona University	Fri 10/21	5:00 PM–9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
32	Oral	Chan, Candace	Understanding relationships between structure, synthesis, solid–state electrochemistry, and lithiation behavior of Tetrel clathrates	Arizona State University	Thu 10/20	2:00 PM–2:30 PM	Red Rock 6	WRM008E: Emerging Materials and Processes for Electrochemical Energy Storage II
21	Oral	Chan, Wai Ning Harrison, R.	Separation of PFAS using ion chromatography with a resorcinarene stationary phase	Brigham Young University	Thu 10/20	11:08 AM–11:30 AM	Red Rock 7	WRM025A: Water Contamination, Treatment, Reliability & Reuse PFAs and other Emerging Contaminants I
149	Oral	Chen, Eugene	Design principles and chemocatalytic methods for circular polymers and biodegradable plastics	Colorado State University	Fri 10/21	10:30 AM–10:57 AM	Red Rock 3	WRM021C: Recent Trends in Polymer Chemistry and Sustainable Materials III
78	Poster	Chen, Vicky	Increasing protein expression through mRNA localization to the mitochondria in mammalian cells	University of California San Diego	Thu 10/20	4:00 PM–8:00 PM	Carson City 1&2	WRM010C: General Poster Session 1 (Biomedicine, Biotech, Biochem, Sensors & Applications)
356	Oral	Cho, Han–Jae	Polymer strand spacing relates permeability to stiffness in hydrogelsability to Stiffness in Hydrogels	University of Nevada Las Vegas	Sat 10/22	4:06 PM–4:24 PM	Red Rock 3	WRM021F: Recent Trends in Polymer Chemistry and Sustainable Materials VI
136	Oral	Chowdhury, Ishmam Zahin Mandai, S. Boorady, L.M. Agnew, R.	Sweat drying performance of PPE fabric materials used in high–risk sectors	Oklahoma State University College of Education and Human Sciences	Fri 10/21	10:48 AM–11:06 AM	Red Rock 2	WRM017E: Progresses in Research Activities on Personal Protective Equipment (PPE) I
44	Oral	Chrisman, Cameron Kudisch, M.	Elucidating an oxidative quenching mechanism in a dual nickel/photoredox–catalyzed C–O coupling and enabling challenging aryl chlorides as substrates	Colorado State University	Thu 10/20	4:44 PM–5:06 PM	Red Rock 4	WRM012E: Innovating Organometallics I
155	Oral	Christensen, Eileen	Risk–based evaluation case study: assessment of a former uncontrolled landfill proposed for reuse as grazing land	BEC Environmental, Inc.	Fri 10/21	9:30 AM–10:00 AM	Red Rock 5	WRM024A: Vapor Intrusion, Environment Preservation and Human Health
53	Oral	Cicchetti, Nicholas Khavkin, B. Gelis, A.	Stabilization and characterization of heptavalent neptunium under mildly acidic conditions	University of Nevada Las Vegas	Thu 10/20	2:18 PM–2:36 PM	Red Rock 5	WRM019A: Radiochemical Separations for Nuclear Forensics and Nuclear Medicine
270	Poster	Ciffigu, Petrika	Wide band gap amorphous semiconductor synthesis form powdered oxalate salts via white X–ray irradiation with high–pressure assistance	University of Nevada Las Vegas	Fri 10/21	5:00 PM–9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
177	Poster	Cordero, Paula	Detailed comparison of palladium and platinum nanoparticle–modified boron–doped diamond electrode for hydrogen peroxide detection	University of Nevada Las Vegas	Fri 10/21	1:00 PM–5:00 PM	Carson City 1&2	WRM010B: General Poster Session 2 (Environmental Chemistry, Energy Storage, Education)
360	Oral	Cotner, Sehoya	But I'm not a psychologist! Considering student psycho–social characteristics in introductory STEM courses	University of Minnesota Twin Cities; Universitetet i Bergen	Sat 10/22	1:48 PM–2:03 PM	Lake Mead 1	WRM023B: Recruiting, Retaining and Supporting Underrepresented Individuals in STEM

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244	Poster	Cox, Seonghyeok	Bis(3-alkoxyphenyl) viologen bistosylate salts: Synthesis, thermotropic liquid-crystalline, and light-emitting properties	University of Nevada Las Vegas	Fri 10/21	5:00 PM-9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
252	Poster	Cox, Seonghyeok	Poly(pyridinium salt)s containing 4,4'-(9-fluorenylidene)dianiline with various organic counterions exhibiting high solubilities in organic solvents and light-emitting properties	University of Nevada Las Vegas	Fri 10/21	5:00 PM-9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
361	Oral	Creech, Catherine	Literacy skills to support underrepresented STEM students	Mt. Hood Community College	Sat 10/22	2:03 PM-2:18 PM	Lake Mead 1	WRM023B: Recruiting, Retaining and Supporting Underrepresented Individuals in STEM
331	Oral	Crisman, Jeffery	Synthesis of unnatural cannabinoids using cannabis extracts	California State University Bakersfield	Sat 10/22	3:30 PM-3:52 PM	Red Rock 5	WRM009C: Emerging Research in Cannabis Science II
56	Oral	Czerwinski, Ken	Coupling target synthesis with separation of isotopes produced from nuclear reactions	University of Nevada Las Vegas	Thu 10/20	3:12 PM-3:30 PM	Red Rock 5	WRM019A: Radiochemical Separations for Nuclear Forensics and Nuclear Medicine
182	Poster	Damjanovic, Nastasija	Free-standing optically transparent carbon electrodes for spectroelectrochemistry	University of Nevada Las Vegas	Fri 10/21	1:00 PM-5:00 PM	Carson City 1&2	WRM010B: General Poster Session 2 (Environmental Chemistry, Energy Storage, Education)
52	Oral	Dares, Christopher Jones, E. McLachlan, J. Grimes, T.S. Hou, X. LACAU, R.	F-element redox chemistry at polyoxometalate functionalized metal oxide electrodes	Florida International University	Thu 10/20	2:00 PM-2:18 PM	Red Rock 5	WRM019A: Radiochemical Separations for Nuclear Forensics and Nuclear Medicine
221	Oral	da Silva, Humberto Morita, M. Yao, Q. Guo, H. Kendrick, B. Naduvalath, B.	Quantum dynamics of cold Li + CaF → LiF + Ca chemical reaction	University of Nevada Las Vegas	Fri 10/21	4:00 PM-4:15 PM	Lake Mead 1	WRM018E: Quantum Science and Chemistry with Cold Molecules II
235	Oral	Decker, Debbie	Accommodating people with disabilities in the laboratory	Retired Health and Safety Professional	Fri 10/21	4:00 PM-4:30 PM	Red Rock 8	WRM026A: What does health and safety look like in your workplace?
231	Oral	Decker, Debbie	The ACS Center for Laboratory Safety – resources and supports available for you	Retired Health and Safety Professional	Fri 10/21	1:30 PM-2:00 PM	Red Rock 8	WRM026A: What does health and safety look like in your workplace?
104	Poster	Delost, Michael	Development of new anionic annulations and analysis of FDA-approved architectures	Colorado State University; The University of Arizona	Thu 10/20	4:00 PM-8:00 PM	Carson City 1&2	WRM010C: General Poster Session 1 (Biomedicine, Biotech, Biochem, Sensors & Applications)
299	Oral	Dergachev, Vsevolod Nakritskaia, D.D. Varganov, S.A.	Impact of strong spin-orbit coupling on electronic structure and magnetic properties of lanthanide-based molecular magnets	University of Nevada Reno	Sat 10/22	9:20 AM-9:40 AM	Red Rock 6	WRM014A: Molecular Magnetism for the Advancement of Quantum Information Science I
89	Poster	Diaz-Garcia, Sanyah Staten, Ashley Luy, Sheena	Formulation of amphiphilic cannabinoids	Utah Tech University Utah Tech University Utah Tech University	Thu 10/20	4:00 PM-8:00 PM	Carson City 1&2	WRM010C: General Poster Session 1 (Biomedicine, Biotech, Biochem, Sensors & Applications)
285	Oral	Dixon, Roy Hardman, J. Ward, L.K. Liu, Y.	Use of a portable Arduino-based electronics lab for a senior analytical chemistry class in response to the COVID-19 pandemic	California State University Sacramento	Sat 10/22	11:12 AM-11:33 AM	Red Rock 8	WRM001A: Advances in Undergraduate Chemistry Education Amid Challenging Times I
200	Oral	Dong, Liang	Wearables for monitoring of plant health	Iowa State University	Fri 10/21	3:30 PM-4:00 PM	Red Rock 7	WRM006C: Chemical Sensors with a Focus on Wearables and Health Related Measurements II
294	Oral	Dong, Vy	Choose your own adventure in metal-hydride catalysis	University of California Irvine	Sat 10/22	9:15 AM-10:00 AM	Red Rock 4	WRM012C: Innovating Organometallics IV
74	Oral	Dong, Weiquan Parker, J. Pineda, A. Dotchin, J.	In situ biological and chemical reduction of groundwater perchlorate with emulsified vegetable oil	Bureau of Industrial Site Cleanup	Thu 10/20	3:08 PM-3:30 PM	Red Rock 7	WRM025B: Water Contamination, Treatment, Reliability & Reuse PFAs and other Emerging Contaminants II
362	Oral	Drake, Abby	Implementing Team-Based Learning to support underrepresented individuals in STEM	Cornell University	Sat 10/22	2:18 PM-2:33 PM	Lake Mead 1	WRM023B: Recruiting, Retaining and Supporting Underrepresented Individuals in STEM
43	Oral	Dunphy, Sean Figueroa, J.S.	Chemoselective hydrosilylation of imines: Catalysis using a low-valent nickel isocyanide complex under mild conditions	University of California San Diego	Thu 10/20	4:22 PM-4:44 PM	Red Rock 4	WRM012E: Innovating Organometallics I
233	Oral	Duraj, Victor	DiSCO: Supplemental safety via a network of Department Safety Coordinators and Officers	University of California Davis	Fri 10/21	2:30 PM-3:00 PM	Red Rock 8	WRM026A: What does health and safety look like in your workplace?

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322	Oral	Eaton, Teresa	Scaffolding forensic chemistry research into the undergraduate curriculum	Embry–Riddle Aeronautical University	Sat 10/22	3:30 PM–3:51 PM	Red Rock 8	WRM001E: Advances in Undergraduate Chemistry Education Amid Challenging Times II
320	Oral	Eichler, Jack	Using the flipped classroom structure to promote conceptual understanding in a large enrollment undergraduate chemistry courses	University of California Riverside	Sat 10/22	2:18 PM–2:39 PM	Red Rock 8	WRM001E: Advances in Undergraduate Chemistry Education Amid Challenging Times II
86	Poster	Elhabashy, Aya	Novel long–term hypobaric storage technology, RipeLocker®, promotes distinct metabolite profiles in pomegranates: A preliminary NMR evaluation	California State University Fresno	Thu 10/20	4:00 PM–8:00 PM	Carson City 1&2	WRM010C: General Poster Session 1 (Biomedicine, Biotech, Biochem, Sensors & Applications)
207	Oral	Engle, Keary	Advances in nickel–catalyzed multi–component cross–couplings	The Scripps Research Institute	Fri 10/21	4:05 PM–4:40 PM	Red Rock 4	WRM012B: Innovating Organometallics III
77	Oral	Ensminger, Scott	Learn how a small company helps creators bring beneficial technology to the market place	DASCO, Inc.	Thu 10/20	4:44 PM–5:06 PM	Red Rock 7	WRM025B: Water Contamination, Treatment, Reliability & Reuse PFAs and other Emerging Contaminants II
101	Poster	Eswaran, Aksithi Ananthakrishnan, Aparnaa Lin, Ashley Kathrani, Shikha Zhang, Ivan	The in–silico characterization of epigenetic drugs (for epigenetic targets such as DNA Methyltransferase and Histone deacetylases) on a colorectal cell line (HCT116)	Aspiring Scholars Directed Research Program Aspiring Scholars Directed Research Program Aspiring Scholars Directed Research Program Aspiring Scholars Directed Research Program Aspiring Scholars Directed Research Program	Thu 10/20	4:00 PM–8:00 PM	Carson City 1&2	WRM010C: General Poster Session 1 (Biomedicine, Biotech, Biochem, Sensors & Applications)
50	Oral	Evyukhin, Egor Ciffigu, P. Kim, E. Weck, P. Bhowmik, P.K. Pravica, M.G.	Monochromatic X–ray irradiation with high pressure assistance is a novel means of chemical and structural synthesis	University of Nevada Las Vegas	Thu 10/20	4:30 PM–5:00 PM	Lake Mead 1	WRM013E: Inorganic and Materials Chemistry II
359	Oral	Ewell, Sharday	Using Edu–stem to promote equitable online learning environments in STEM	Auburn University	Sat 10/22	1:33 PM–1:48 PM	Lake Mead 1	WRM023B: Recruiting, Retaining and Supporting Underrepresented Individuals in STEM
93	Poster	Fairbanks, Landon	Surface interactions of antimicrobial ionic liquids	Utah Tech University	Thu 10/20	4:00 PM–8:00 PM	Carson City 1&2	WRM010C: General Poster Session 1 (Biomedicine, Biotech, Biochem, Sensors & Applications)
5	Oral	FANG, CHENGCHENG	Pressure–tailored lithium deposition and dissolution in lithium metal batteries	Michigan State University	Thu 10/20	12:00 PM–12:30 PM	Red Rock 6	WRM008C: Emerging Materials and Processes for Electrochemical Energy Storage I
259	Poster	Fernando, Payagala Udawattage Ashvin Sandhu, Samar Cobb, Jared	A versatile green MOF (MIP–202): Nanoscale synthesis and post–functionalization towards efficient chemical warfare agent surrogate hydrolysis and on–site electrochemical detection via novel potentiometric and voltametric sensing strategies	Bennett Aerospace Inc; US Army Engineer Research and Development Center University of California San Diego US Army Engineer Research and Development Center	Fri 10/21	5:00 PM–9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
129	Oral	Figuroa, Joshua	Late 3D–metal terminal carbynes	University of California San Diego	Fri 10/21	11:00 AM–11:30 AM	Red Rock 4	WRM012A: Innovating Organometallics II
249	Poster	Flaum, Vivian	Cloud Point Extraction for the determination of lead with a Bismuth–Film Glassy Carbon Electrode by Anodic Stripping Voltammetry	University of Nevada Las Vegas	Fri 10/21	5:00 PM–9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
254	Poster	Flory, Emily	Reversible synthesis of pyridinium ionic liquids	Utah Tech University	Fri 10/21	5:00 PM–9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
290	Oral	Floyd, Adam	Hop latent viroid analysis in a commercial laboratory	The Soil Labs	Sat 10/22	9:38 AM–10:00 AM	Red Rock 5	WRM009A: Emerging Research in Cannabis Science I
106	Poster	Flynt, Alison	Analysis of cosmetics as trace evidence using SEM/EDS	Embry–Riddle Aeronautical University	Thu 10/20	4:00 PM–8:00 PM	Carson City 1&2	WRM010C: General Poster Session 1 (Biomedicine, Biotech, Biochem, Sensors & Applications)
185	Poster	Fong, Clara	Importance of clean water in our times	American Chemical Society	Fri 10/21	1:00 PM–5:00 PM	Carson City 1&2	WRM010B: General Poster Session 2 (Environmental Chemistry, Energy Storage, Education)
297	Oral	Frank, Natia	Optically gating spin states for QIS	University of Nevada Reno	Sat 10/22	8:30 AM–9:00 AM	Red Rock 6	WRM014A: Molecular Magnetism for the Advancement of Quantum Information Science I

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213	Oral	Freeman, Charles Talukder, A. Burch, R. Black, C. Strawderman, L. Saucier, D. Chander, H.	Quantifying fabric mask effectiveness to improve public health messaging	Mississippi State University	Fri 10/21	2:42 PM–3:00 PM	Red Rock 2	WRM017A: Progresses in Research Activities on Personal Protective Equipment (PPE) II
122	Oral	Gao, Wei	Skin–interfaced wearable sweat biosensors	California Institute of Technology	Fri 10/21	11:30 AM–12:00 PM	Red Rock 7	WRM006A: Chemical Sensors with a Focus on Wearables and Health Related Measurements I
176	Poster	Garcia, Adaly	Plasmonic imaging of electrochemical reactions at individual Prussian blue nanoparticles	California State University Los Angeles	Fri 10/21	1:00 PM–5:00 PM	Carson City 1&2	WRM010B: General Poster Session 2 (Environmental Chemistry, Energy Storage, Education)
239	Oral	Geary, Laina	Development and mechanistic investigations of a palladium and silver co–catalyzed Piancatelli–like reaction	University of Nevada Reno	Fri 10/21	3:30 PM–3:55 PM	Red Rock 6	WRM020E: Recent Breakthroughs in Organic Chemistry
178	Poster	George, Jonathan	The nature of technetium in spent fuel reprocessing	University of Nevada Las Vegas College of Sciences	Fri 10/21	1:00 PM–5:00 PM	Carson City 1&2	WRM010B: General Poster Session 2 (Environmental Chemistry, Energy Storage, Education)
194	Oral	Gerson, Taylor Socea, J. Karney, M. Ott, A. Gary, R.K. Wing, H.	VirB, a key virulence gene regulator in Shigella flexneri, binds CTP to modulate VirB activities	University of Nevada Las Vegas College of Sciences	Fri 10/21	2:32 PM–3:00 PM	Lake Mead 2	WRM003A: Biochemistry of COVID and Other Infectious Diseases
16	Oral	Gin, Douglas	Design of a functional, nanoporous, lyotropic bicontinuous cubic polymer network with stimuli–responsive properties	University of Colorado Boulder	Thu 10/20	11:30 AM–12:00 PM	Red Rock 3	WRM021A: Recent Trends in Polymer Chemistry and Sustainable Materials I
111	Oral	Goduco, Maria Yileana Caryle Ednacot, E. Watts, K.	Cloning and expression of amino acid ligases for TLN–05220 biosynthesis	California Polytechnic State University College of Science and Mathematics	Fri 10/21	9:09 AM–9:26 AM	Lake Mead 2	WRM004A: Biotechnology & Biomedicine
75	Oral	Goel, Ramesh	PFAS in municipal wastewater–fate along the treatment train	University of Utah Health Hospitals and Clinics	Thu 10/20	4:00 PM–4:22 PM	Red Rock 7	WRM025B: Water Contamination, Treatment, Reliability & Reuse PFAs and other Emerging Contaminants II
132	Oral	Graciano, Celeste WU, Yingying WU, Y.	Development of new firefighting personal protective turnout coat and pants prototypes for protecting Firewomen who protect us	Kansas State University Kansas State University	Fri 10/21	9:06 AM–9:24 AM	Red Rock 2	WRM017E: Progresses in Research Activities on Personal Protective Equipment (PPE) I
38	Oral	Green, Alexander Liu, X. Miyake, G.	Mechanistic understanding of Photobirch catalysts by ring opening degradation pathway	Colorado State University	Thu 10/20	2:02 PM–2:24 PM	Red Rock 4	WRM012E: Innovating Organometallics I
131	Oral	Griffin, Linsey Sokolowski, S.	Interior fit of female firefighter gloves compared to 3D hand anthropometry	University of Minnesota Twin Cities	Fri 10/21	8:48 AM–9:06 AM	Red Rock 2	WRM017E: Progresses in Research Activities on Personal Protective Equipment (PPE) I
8	Oral	Grippo, Adam Figueroa, J.S.	Organometallic coordination networks featuring low–valent Cu and Pd nodes with multitopic isocyanide linkers	University of California San Diego	Thu 10/20	10:30 AM–11:00 AM	Lake Mead 1	WRM013B: Inorganic and Materials Chemistry I
324	Oral	Groves, Michael	Administering computational materials CURE projects in the senior physical Chemistry Laboratory course	California State University Fullerton	Sat 10/22	4:12 PM–4:33 PM	Red Rock 8	WRM001E: Advances in Undergraduate Chemistry Education Amid Challenging Times II
237	Oral	Gustafson, Jeffrey	Atropisomerism as an inspiration for new chemistry and beyond	San Diego State University	Fri 10/21	2:10 PM–2:35 PM	Red Rock 6	WRM020E: Recent Breakthroughs in Organic Chemistry
156	Oral	Hago, Wilson	Lowering biomethane emissions via methane pyrolysis methods	Hago Energetics Benefit Corporation	Fri 10/21	10:30 AM–11:00 AM	Red Rock 5	WRM024A: Vapor Intrusion, Environment Preservation and Human Health
54	Oral	Hammer, Phillip Hatchett, D.W.	Electrolytic recovery of actinide metals from aqueous and non–aqueous electrolytes	University of Nevada Las Vegas	Thu 10/20	2:36 PM–2:54 PM	Red Rock 5	WRM019A: Radiochemical Separations for Nuclear Forensics and Nuclear Medicine
293	Oral	Han, Chong Kelly, S.M. Xu, J. Bass, T. Mack, K.A. Walroth, R. Malig, T. Nguyen, S. Sirois, L. Zhang, H. Gosselin, F.	Atroposelective Negishi coupling leveraging multivariate linear regression analysis and continuous flow chemistry: Asymmetric synthesis of KRAS G12C covalent inhibitor GDC–6036	Genentech Inc	Sat 10/22	8:35 AM–9:15 AM	Red Rock 4	WRM012C: Innovating Organometallics IV
73	Oral	Hanigan, David DeNicola, M. Dickenson, E.	PFAS in the Great Basin and Sierra Nevada Alpine Lakes	University of Nevada Reno	Thu 10/20	2:46 PM–3:08 PM	Red Rock 7	WRM025B: Water Contamination, Treatment, Reliability & Reuse PFAs and other Emerging Contaminants II
81	Poster	Harrington, Anthony	Urban monitoring of antimicrobial resistance during a COVID–19 surge using wastewater surveillance	University of Nevada Las Vegas	Thu 10/20	4:00 PM–8:00 PM	Carson City 1&2	WRM010C: General Poster Session 1 (Biomedicine, Biotech, Biochem, Sensors & Applications)

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310	Oral	Harry, Katherine	New strategies for the synthesis of chemically recyclable polymers	Colorado State University	Sat 10/22	9:06 AM–9:24 AM	Red Rock 3	WRM021E: Recent Trends in Polymer Chemistry and Sustainable Materials V
109	Oral	Hasratyan, Vahe	Determining the molar mass of newly developed antibiotic clusters via osmosis: Applications in Pharmacology and Biomedicine	Los Angeles Community College District	Fri 10/21	8:35 AM–8:52 AM	Lake Mead 2	WRM004A: Biotechnology & Biomedicine
13	Oral	Hawker, Craig	Pushing the limits of controlled polymer synthesis	University of California Santa Barbara	Thu 10/20	10:00 AM–10:30 AM	Red Rock 3	WRM021A: Recent Trends in Polymer Chemistry and Sustainable Materials I
61	Oral	Hawkins, Cory	SHINE Phase II of IV: Lu–177 Production	SHINE Technologies	Thu 10/20	5:12 PM–5:30 PM	Red Rock 5	WRM019A: Radiochemical Separations for Nuclear Forensics and Nuclear Medicine
164	Oral	he, fengjie Zhai, S. Zhao, H.	Automated air–delivery solar–driven onsite wastewater smart monitoring and treatment systems	University of Nevada Las Vegas	Fri 10/21	11:14 AM–11:36 AM	Red Rock 8	WRM025C: Water Contamination, Treatment, Reliability & Reuse PFAs and other Emerging Contaminants III
67	Oral	Helms, Brett	Understanding and controlling Polydiketoenamine circularity across scales	E O Lawrence Berkeley National Laboratory	Thu 10/20	4:00 PM–4:27 PM	Red Rock 3	WRM021B: Recent Trends in Polymer Chemistry and Sustainable Materials II
42	Oral	Hernandez, Ritchie Figueroa, J.S.	Synthesis and reaction chemistry of a nickel terminal carbyne	University of California San Diego	Thu 10/20	4:00 PM–4:22 PM	Red Rock 4	WRM012E: Innovating Organometallics I
227	Oral	Herrera–Alonso, Margarita	Bottlebrush copolymer nanocarriers	Colorado State University; Colorado State University	Fri 10/21	3:30 PM–3:57 PM	Red Rock 3	WRM021D: Recent Trends in Polymer Chemistry and Sustainable Materials IV
87	Poster	Heydari, Bahar	Utilizing conformational control as a filter to obtain selective kinase inhibitors	San Diego State University	Thu 10/20	4:00 PM–8:00 PM	Carson City 1&2	WRM010C: General Poster Session 1 (Biomedicine, Biotech, Biochem, Sensors & Applications)
88	Poster	Heydari, Beeta	Leveraging dihedral angle control as a strategy to synthesize selective kinase inhibitors	San Diego State University	Thu 10/20	4:00 PM–8:00 PM	Carson City 1&2	WRM010C: General Poster Session 1 (Biomedicine, Biotech, Biochem, Sensors & Applications)
98	Poster	Hijazi, Mohamad	Designing hollow nanogels for drug delivery applications	Chapman University Schmid College of Science and Technology	Thu 10/20	4:00 PM–8:00 PM	Carson City 1&2	WRM010C: General Poster Session 1 (Biomedicine, Biotech, Biochem, Sensors & Applications)
173	Poster	Hill, Megan	Speciation of radioactive iodine from the accelerator–induced fission of enriched uranium	Gonzaga University; Argonne National Laboratory	Fri 10/21	1:00 PM–5:00 PM	Carson City 1&2	WRM010B: General Poster Session 2 (Environmental Chemistry, Energy Storage, Education)
301	Oral	Holmes, Stephen	Structure–property studies of paramagnetic niobium carbenes and amides	University of Missouri–St Louis; University of Missouri–St Louis	Sat 10/22	10:30 AM–10:50 AM	Red Rock 6	WRM014A: Molecular Magnetism for the Advancement of Quantum Information Science I
29	Oral	Holton, Amanda	Preparing for success in general chemistry– expectations vs. reality	University of California Irvine	Thu 10/20	4:20 PM–4:40 PM	Red Rock 8	WRM007E: Education During the COVID–19 Pandemic. A New Virtual reality and Preparing K–12 Students for a Future in STEM
40	Oral	Hooker, Leidy Bandar, J.	Development of a general paradigm for base–promoted reductive coupling reactions	Colorado State University	Thu 10/20	2:46 PM–3:08 PM	Red Rock 4	WRM012E: Innovating Organometallics I
41	Oral	Hoteling, Garrett	Development and application of organic superbase precatalyst salts	Colorado State University	Thu 10/20	3:08 PM–3:30 PM	Red Rock 4	WRM012E: Innovating Organometallics I
127	Oral	Hou, Xintong	Transition metal–catalyzed hydrofunctionalization of alkynes and cyclopropenes	University of California Irvine	Fri 10/21	9:25 AM–9:50 AM	Red Rock 4	WRM012A: Innovating Organometallics II
220	Oral	Hudson, Eric	Quantum chemistry to quantum logic	University of California Los Angeles	Fri 10/21	3:30 PM–4:00 PM	Lake Mead 1	WRM018E: Quantum Science and Chemistry with Cold Molecules II
82	Poster	Humphrey, Nicholas	Ethylene sensing on a heated platinum nanowire	University of California Irvine	Thu 10/20	4:00 PM–8:00 PM	Carson City 1&2	WRM010C: General Poster Session 1 (Biomedicine, Biotech, Biochem, Sensors & Applications)
146	Oral	Hu, Zhitao Miyake, G.	Recyclable cross–linked polymers	Colorado State University	Fri 10/21	8:57 AM–9:15 AM	Red Rock 3	WRM021C: Recent Trends in Polymer Chemistry and Sustainable Materials III
303	Oral	Ibrahim, Yehia	Ion mobility spectrometry; the evolution of the technique	Pacific Northwest National Laboratory Biological Sciences Division	Sat 10/22	8:30 AM–9:00 AM	Red Rock 7	WRM015C: Novel Applications in Mass Spectrometry I
126	Oral	Jackson, Oliver Neufeldt, S.R.	Mechanistic investigation into the nickel–catalyzed Suzuki–Miyaura cross–coupling reactions of aryl and benzyl methyl ethers	Montana State University	Fri 10/21	9:00 AM–9:25 AM	Red Rock 4	WRM012A: Innovating Organometallics II
257	Poster	Jang, Harry	Fluorination of uranium oxide microspheres via bifluorides	University of Nevada Las Vegas	Fri 10/21	5:00 PM–9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
188	Poster	Jensen, Jacob	Toxic metal sequestration using microfluidics	Southern Utah University	Fri 10/21	1:00 PM–5:00 PM	Carson City 1&2	WRM010B: General Poster Session 2 (Environmental Chemistry, Energy Storage, Education)

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329	Oral	Jensen, Robert	Delta-10-THC: An apology for Haagen-Smit et al. 1940	Flora-Works	Sat 10/22	2:14 PM-2:36 PM	Red Rock 5	WRM009C: Emerging Research in Cannabis Science II
287	Oral	Johnson, Darryl	Introductory talk	CH Lab Consulting	Sat 10/22	8:30 AM-8:54 AM	Red Rock 5	WRM009A: Emerging Research in Cannabis Science I
267	Poster	Johnson, Kate	Validation agreement for percent product yield	University of California Davis	Fri 10/21	5:00 PM-9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
59	Oral	Johnson, Nathan Stika, M. Shannon, K. Grimm, T. Brown, M. Gelis, A.	Recovery of high specific activity Molybdenum-99 for use in existing Technetium-99m generators	Niowave, Inc.	Thu 10/20	4:36 PM-4:54 PM	Red Rock 5	WRM019A: Radiochemical Separations for Nuclear Forensics and Nuclear Medicine
57	Oral	Johnson, Nathan Shannon, K. Stika, M. Krizmanich, C. Wahlen, R. Hemesath, M. Grimm, T. Brown, M. Gelis, A.	Radioisotope production from uranium using a superconducting electron linac	Niowave, Inc.	Thu 10/20	4:00 PM-4:18 PM	Red Rock 5	WRM019A: Radiochemical Separations for Nuclear Forensics and Nuclear Medicine
139	Oral	Joshi, Ankit Li, Rui Xiang, C. Song, G.	Achieving high performance protective gloves: Effects of glove area factor and microclimate properties	Iowa State University Iowa State University	Fri 10/21	11:42 AM-12:00 PM	Red Rock 2	WRM017E: Progresses in Research Activities on Personal Protective Equipment (PPE) I
55	Oral	Kaminski, Michael Mertz, C. Kalensky, M. Russo, R. Gonzalez, J. Walsh, M.	Magnetic microparticle based elemental separations for in-situ applications	Argonne National Laboratory	Thu 10/20	2:54 PM-3:12 PM	Red Rock 5	WRM019A: Radiochemical Separations for Nuclear Forensics and Nuclear Medicine
236	Oral	Kang, Jun Yong	Activation strategy of various phosphorus oxides	University of Nevada Las Vegas	Fri 10/21	1:45 PM-2:10 PM	Red Rock 6	WRM020E: Recent Breakthroughs in Organic Chemistry
351	Oral	Karimi Nikoo, Kamyar Brown, J. Xie, R. Long, T.E.	Additive manufacturing of super-soft and tough siloxane-based elastomers	Arizona State University; Arizona State University Ira A Fulton Schools of Engineering	Sat 10/22	2:06 PM-2:24 PM	Red Rock 3	WRM021F: Recent Trends in Polymer Chemistry and Sustainable Materials VI
226	Oral	Kasko, Andrea	Biomass-derived polymers incorporating hydroxycinnamates	University of California Los Angeles	Fri 10/21	2:33 PM-3:00 PM	Red Rock 3	WRM021D: Recent Trends in Polymer Chemistry and Sustainable Materials IV
85	Poster	Kazemeini, Sarah	An analysis of protein fouling effects on nanoparticle-modified boron-doped diamond electrodes	University of Nevada Las Vegas College of Sciences	Thu 10/20	4:00 PM-8:00 PM	Carson City 1&2	WRM010C: General Poster Session 1 (Biomedicine, Biotech, Biochem, Sensors & Applications)
306	Oral	Kelly, Ryan	Combining ion mobility separations with nanoLC for single-cell proteomics	Brigham Young University	Sat 10/22	10:30 AM-11:00 AM	Red Rock 7	WRM015C: Novel Applications in Mass Spectrometry I
344	Oral	Kemperman, Robin	TBD	The Children's Hospital of Philadelphia Metabolic and Advanced Diagnostics Laboratory	Sat 10/22	1:30 PM-2:00 PM	Red Rock 7	WRM015E: Novel Applications in Mass Spectrometry II
218	Oral	Kendrick, Brian	Exploiting quantum interference to control ultracold chemistry	Los Alamos National Laboratory	Fri 10/21	2:00 PM-2:30 PM	Lake Mead 1	WRM018E: Quantum Science and Chemistry with Cold Molecules II
24	Oral	Khan, Eakalak	Degradation of emerging water contaminants by new generation photocatalysts	University of Nevada Las Vegas	Thu 10/20	12:14 PM-12:36 PM	Red Rock 7	WRM025A: Water Contamination, Treatment, Reliability & Reuse PFAs and other Emerging Contaminants I
198	Oral	Khine, Michelle	Soft stretchable sensors for continuous physiological monitoring	University of California, Irvine	Fri 10/21	2:00 PM-2:30 PM	Red Rock 7	WRM006C: Chemical Sensors with a Focus on Wearables and Health Related Measurements II
346	Oral	Kimble, Ke'La Mitts, B. Li, L. Hogan, C. Prather, K.A.	cMA-ATOFMS: The new frontier of aerosol chemistry at the nanometer scale	University of California San Diego	Sat 10/22	2:30 PM-3:00 PM	Red Rock 7	WRM015E: Novel Applications in Mass Spectrometry II
119	Oral	Kim, Jayoung	Wearable electrochemical biosensors for non-invasive monitoring of metabolites	Yonsei University College of Medicine	Fri 10/21	9:30 AM-10:00 AM	Red Rock 7	WRM006A: Chemical Sensors with a Focus on Wearables and Health Related Measurements I
179	Poster	Kim, Seoyeong	Aqueous Zinc ion batteries with improved rate capacity based on chemical doped manganese oxide as cathode	Gyeongsang National University	Fri 10/21	1:00 PM-5:00 PM	Carson City 1&2	WRM010B: General Poster Session 2 (Environmental Chemistry, Energy Storage, Education)
49	Oral	King, David Han, H. Mandal, H.D.	Bis(4-alkoxyphenyl) viologen bistriflate salts: Synthesis, thermotropic liquid-crystalline, and light-emitting properties	University of Nevada Las Vegas	Thu 10/20	4:00 PM-4:30 PM	Lake Mead 1	WRM013E: Inorganic and Materials Chemistry II
275	Poster	King, David	Bis(4-alkoxyphenyl) viologen bis(nonafflate) salts: Synthesis, thermotropic liquid-crystalline, and light-emitting properties	University of Nevada Las Vegas	Fri 10/21	5:00 PM-9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)

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260	Poster	King, David	Synthesis and luminescent properties of n-alkyl-o-styrylpyridinium salts with different counterions	University of Nevada Las Vegas	Fri 10/21	5:00 PM–9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
355	Oral	King, David Han, H. Bhowmik, P.K.	Design, synthesis, and applications of fire-retardant polymers	University of Nevada Las Vegas	Sat 10/22	3:48 PM–4:06 PM	Red Rock 3	WRM021F: Recent Trends in Polymer Chemistry and Sustainable Materials VJ
258	Poster	Klein, Audrey Tang, Thomas	Competition kinetics of cyclopropanation of substituted arylindenes and aryl-3,4-dihydronaphthalenes	California Polytechnic State University California Polytechnic State University	Fri 10/21	5:00 PM–9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
145	Oral	Knauer, Katrina	Plastic upcycling, deconstruction, and redesign in the BOTTLETM consortium	National Renewable Energy Laboratory	Fri 10/21	8:30 AM–8:57 AM	Red Rock 3	WRM021C: Recent Trends in Polymer Chemistry and Sustainable Materials III
115	Oral	Kohli, Rahul	Non-destructive epigenetic sequencing with DNA modifying enzymes and unnatural DNA modifications	University of Pennsylvania Perelman School of Medicine	Fri 10/21	10:50 AM–11:15 AM	Lake Mead 2	WRM004A: Biotechnology & Biomedicine
128	Oral	Kou, Kevin	Exploiting electron-rich alkenes for C–H functionalization: Synthesis of isoquinoline natural products	University of California Riverside	Fri 10/21	10:30 AM–11:00 AM	Red Rock 4	WRM012A: Innovating Organometallics II
295	Oral	Krska, Shane	Impacting drug discovery through innovation in catalysis	Merck & Co Inc	Sat 10/22	10:30 AM–11:15 AM	Red Rock 4	WRM012C: Innovating Organometallics IV
30	Oral	Kuei, Katy	Cultivating resilience and empowering high school students with science research and innovation	Mission San Jose High School	Thu 10/20	4:40 PM–5:00 PM	Red Rock 8	WRM007E: Education During the COVID-19 Pandemic. A New Virtual reality and Preparing K-12 Students for a Future in STEM
234	Oral	Langerman, Neal	A wandering consultant's views on workplaces visited	Research Chemical Safety	Fri 10/21	3:30 PM–4:00 PM	Red Rock 8	WRM026A: What does health and safety look like in your workplace?
343	Oral	La Pierre, Henry	Competition of crystal field and spin-orbit coupling in the design of spin qubits and single molecule magnets	Georgia Institute of Technology College of Sciences	Sat 10/22	4:10 PM–4:30 PM	Red Rock 6	WRM014B: Molecular Magnetism for the Advancement of Quantum Information Science II
167	Poster	Lee, Jaeyeon	Fiber-based flexible supercapacitors based on the fluorine and nitrogen co-doped mesoporous carbon fiber electrode	Gyeongsang National University	Fri 10/21	1:00 PM–5:00 PM	Carson City 1&2	WRM010B: General Poster Session 2 (Environmental Chemistry, Energy Storage, Education)
99	Poster	Lee, Kaitlyn	Inhibitory potential of phytochemicals as antileukemic agents for drug-resistant T315I mutant and wildtype BCR-ABL1: A molecular docking analysis	Pomona College	Thu 10/20	4:00 PM–8:00 PM	Carson City 1&2	WRM010C: General Poster Session 1 (Biomedicine, Biotech, Biochem, Sensors & Applications)
189	Poster	Letourneau, Emma Pochampally, Suraj Venkat Moon, Jaeyun	Study on the effect of nitrogen doping on a biochar's surface properties and adsorption capacity	University of Nevada Las Vegas University of Nevada Las Vegas University of Nevada Las Vegas	Fri 10/21	1:00 PM–5:00 PM	Carson City 1&2	WRM010B: General Poster Session 2 (Environmental Chemistry, Energy Storage, Education)
144	Oral	Lewandowski, Heather	Chemical reactions between cold, trapped ions and neutral molecules	University of Colorado Boulder; JILA	Fri 10/21	11:30 AM–12:00 PM	Lake Mead 1	WRM018A: Quantum Science and Chemistry with Cold Molecules I
264	Poster	L'Heureux, Scott	Understanding the role of hydrogen-bonding in the fragmentation kinetics of Ylidenenbornadiene adducts	California Polytechnic State University	Fri 10/21	5:00 PM–9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
37	Oral	Li, Bin	Understanding and improvement of high-energy density Li metal batteries	Idaho National Laboratory	Thu 10/20	5:00 PM–5:30 PM	Red Rock 6	WRM008E: Emerging Materials and Processes for Electrochemical Energy Storage II
186	Poster	Li, Dingsheng	Examination of potential environmental justice issues of community exposure to water pollutants across counties in the United States	University of Nevada Reno	Fri 10/21	1:00 PM–5:00 PM	Carson City 1&2	WRM010B: General Poster Session 2 (Environmental Chemistry, Energy Storage, Education)
22	Oral	Li, Dingsheng	Traditional and novel health risk assessment for emerging chemicals	University of Nevada Reno	Thu 10/20	11:30 AM–11:52 AM	Red Rock 7	WRM025A: Water Contamination, Treatment, Reliability & Reuse PFAs and other Emerging Contaminants I
215	Oral	Lin, Albert Goodge, K. Du, J. Maher, M. Forstenhausler, L. Xiao, R. Baytar, F. Frey, M.W. Park, H.	Design, materials, and sizing of cloth facemasks for children	Cornell University	Fri 10/21	3:48 PM–4:18 PM	Red Rock 2	WRM017A: Progresses in Research Activities on Personal Protective Equipment (PPE) II
214	Oral	Lin, ShuHwa Robison, E.	Exploring mask design process and evaluation	University of Hawai'i at Manoa	Fri 10/21	3:30 PM–3:48 PM	Red Rock 2	WRM017A: Progresses in Research Activities on Personal Protective Equipment (PPE) II
134	Oral	Lin, ShuHwa Boorady, L.M. Mandalsumit, S.	Analysis of smart textile development and applications for protection	University of Hawai'i at Manoa	Fri 10/21	9:42 AM–10:00 AM	Red Rock 2	WRM017E: Progresses in Research Activities on Personal Protective Equipment (PPE) I

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352	Oral	Liu, Boer Spiering, G.A. Moore, R.B. Long, T.E.	Bioinspired guanine and cytosine-containing acrylic copolymers	Arizona State University	Sat 10/22	2:24 PM–2:42 PM	Red Rock 3	WRM021F: Recent Trends in Polymer Chemistry and Sustainable Materials VI
250	Poster	Liu, Xin	Photocatalytic strategies for the activation of organic fluorides and fluoropolymers	Colorado State University	Fri 10/21	5:00 PM–9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
217	Oral	Liu, Yu	Precision chemistry with ultracold molecules and molecular ions	NIST Boulder Laboratories; University of Colorado Boulder	Fri 10/21	1:30 PM–2:00 PM	Lake Mead 1	WRM018E: Quantum Science and Chemistry with Cold Molecules II
276	Poster	Locke, Cameron	Photochromic polymers based on the photo-activation of 2,2'-bipyridine-sulfur oxide donor-acceptor complex	University of Nevada Reno	Fri 10/21	5:00 PM–9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
168	Poster	Loera, Enedina Shariaty, Darius	Zinc complex of novel charge-transfer ligands: Photophysical trends and applications to solar fuels	University of Southern California University of Southern California	Fri 10/21	1:00 PM–5:00 PM	Carson City 1&2	WRM010B: General Poster Session 2 (Environmental Chemistry, Energy Storage, Education)
15	Oral	Long, Timothy Arrington, A. Sintas, J.I.	Focusing a lens of sustainability on polymer and process: From polyester-containing polyolefin segmented copolymers to non-isocyanate polyurethane structural foams	Arizona State University	Thu 10/20	11:00 AM–11:30 AM	Red Rock 3	WRM021A: Recent Trends in Polymer Chemistry and Sustainable Materials I
123	Oral	Lu, Xiaochuan	Interfacial engineering enabling low-temperature solid sodium metal battery	North Carolina Agricultural and Technical State University	Fri 10/21	8:30 AM–9:00 AM	Red Rock 6	WRM008A: Emerging Materials and Processes for Electrochemical Energy Storage III
28	Oral	Ly, Abigale Orgill, M.	Students' perceptions of online and in person education during the COVID 19 pandemic	University of Nevada Las Vegas	Thu 10/20	4:00 PM–4:20 PM	Red Rock 8	WRM007E: Education During the COVID-19 Pandemic. A New Virtual reality and Preparing K-12 Students for a Future in STEM
211	Oral	Mandal, Sumit Chowdhury, I. Boorady, L.M. Agnew, R.	Real-time investigation of the temperature profile of moist thermal protective textiles	Oklahoma State University College of Education and Human Sciences	Fri 10/21	2:06 PM–2:24 PM	Red Rock 2	WRM017A: Progresses in Research Activities on Personal Protective Equipment (PPE) II
286	Oral	Mang, Steve	Low-cost instrument design experiments for upper-division chemistry labs	University of California Irvine	Sat 10/22	11:33 AM–11:54 AM	Red Rock 8	WRM001A: Advances in Undergraduate Chemistry Education Amid Challenging Times I
180	Poster	Marti, Erica	Presence of ranitidine in an urban wash before and after its banned use	University of Nevada Las Vegas	Fri 10/21	1:00 PM–5:00 PM	Carson City 1&2	WRM010B: General Poster Session 2 (Environmental Chemistry, Energy Storage, Education)
247	Poster	Martinez, Ashley	Soft nanomaterial carriers: Eliminating burst release of their cargo	Northern Arizona University; Northern Arizona University	Fri 10/21	5:00 PM–9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
238	Oral	Marx, Vanessa	Discovery of a novel quinoline-based proteasome inhibitor for Human African Trypanosomiasis (HAT)	Novartis Institutes for BioMedical Research Emeryville	Fri 10/21	2:35 PM–3:00 PM	Red Rock 6	WRM020E: Recent Breakthroughs in Organic Chemistry
353	Oral	McDonough, Rose Liu, B. Long, T.E.	Ureido cytosine- and cytosine-containing acrylic copolymers with bisguanine physical crosslinkers for reversible adhesion	Arizona State University	Sat 10/22	2:42 PM–3:00 PM	Red Rock 3	WRM021F: Recent Trends in Polymer Chemistry and Sustainable Materials VI
273	Poster	McMullen, Cameron	Ylidenenorbarnadienedicarboxylates as tunable amphiphilic molecules for micellar cargo delivery	California Polytechnic State University	Fri 10/21	5:00 PM–9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
112	Oral	Mehta, Nairuti Milan Li, Yuhui Li, W. Morningstar-Kywi, N. Pospiech, M. Alachkar, H. Haworth, I.S.	Analysis of MHC-peptide-TCR interactions using solvation parameters and machine learning	University of Southern California University of Southern California	Fri 10/21	9:26 AM–9:43 AM	Lake Mead 2	WRM004A: Biotechnology & Biomedicine
323	Oral	Mendez, Sharai Komperda, R.	Qualitative case study analysis of influencing agents supporting undergraduate research experiences in chemistry and biochemistry during a global pandemic	San Diego State University College of Sciences	Sat 10/22	3:51 PM–4:12 PM	Red Rock 8	WRM001E: Advances in Undergraduate Chemistry Education Amid Challenging Times II
282	Oral	Menke, Erik Kranzfelder, P.	Perceived supports and barriers for emergency remote teaching during the COVID-19 pandemic	University of California Merced	Sat 10/22	9:39 AM–10:00 AM	Red Rock 8	WRM001A: Advances in Undergraduate Chemistry Education Amid Challenging Times I
363	Oral	Menke, Erik Garcia-Ojeda, Marcos Garcia-Ojeda, M.	Advances teaching biology and chemistry at a Hispanic Serving Institution.	University of California Merced University of California Merced	Sat 10/22	2:33 PM–2:48 PM	Lake Mead 1	WRM023B: Recruiting, Retaining and Supporting Underrepresented Individuals in STEM

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162	Oral	Mhamad, Shakhawan	Novel visible–light driven BFO/ZnO/BiOCl and BFO/SnO ₂ /BiOCl ternary photocatalysts for congo red dye degradation	University of Sulaimani; Universiti Teknologi Malaysia	Fri 10/21	10:30 AM–10:52 AM	Red Rock 8	WRM025C: Water Contamination, Treatment, Reliability & Reuse PFAs and other Emerging Contaminants III
133	Oral	Michaelson, Dawn Teel, K.P. Chattaraman, V. Ulrich, P.V.	Multidimensional protective apparel framework: Design considerations for protective apparel	Auburn University	Fri 10/21	9:24 AM–9:42 AM	Red Rock 2	WRM017E: Progresses in Research Activities on Personal Protective Equipment (PPE) I
3	Oral	Mills, David Moutet, J. Hossain, M. Gianetti, T.I.	Development of [4]helicene cation based electrolytes for use in organic redox flow batteries (ORFBs)	The University of Arizona College of Science	Thu 10/20	11:00 AM–11:30 AM	Red Rock 6	WRM008C: Emerging Materials and Processes for Electrochemical Energy Storage I
14	Oral	Miyake, Garret	Synthesis of sustainable plastics	Colorado State University College of Natural Sciences	Thu 10/20	10:30 AM–11:00 AM	Red Rock 3	WRM021A: Recent Trends in Polymer Chemistry and Sustainable Materials I
117	Oral	Mohanty, Smita	Controlling pests via sensory inhibition: Structure and function of a pheromone–binding protein	Oklahoma State University	Fri 10/21	11:32 AM–11:49 AM	Lake Mead 2	WRM004A: Biotechnology & Biomedicine
175	Poster	Monroe, Elizabeth	Comparisons of metal nano–particle modified boron doped diamond electrodes for the electrochemical detection of hydrogen peroxide	University of Nevada Las Vegas College of Sciences	Fri 10/21	1:00 PM–5:00 PM	Carson City 1&2	WRM010B: General Poster Session 2 (Environmental Chemistry, Energy Storage, Education)
92	Poster	Montgomery, Keeton	Role of horticultural oils on the winter chill accumulation in pistachios: An NMR metabolomics investigation	California State University Fresno	Thu 10/20	4:00 PM–8:00 PM	Carson City 1&2	WRM010C: General Poster Session 1 (Biomedicine, Biotech, Biochem, Sensors & Applications)
302	Oral	Moseley, Ian	Electron spin relaxation: Magnetically noisy environments/ low–frequency high–field transitions	Colorado State University	Sat 10/22	10:50 AM–11:10 AM	Red Rock 6	WRM014A: Molecular Magnetism for the Advancement of Quantum Information Science I
201	Oral	Mousavi, Maral	Integrated electrochemical sensors containing a fluorous–phase sensing membrane	University of Southern California	Fri 10/21	4:00 PM–4:30 PM	Red Rock 7	WRM006C: Chemical Sensors with a Focus on Wearables and Health Related Measurements II
2	Oral	Moutet, Jules Gianetti, T.L.	Emergence of Full–Organic Symmetric Redox Flow Battery: From redox–active bipolar carbeniums ions to applicable RFB	The University of Arizona College of Science	Thu 10/20	10:30 AM–11:00 AM	Red Rock 6	WRM008C: Emerging Materials and Processes for Electrochemical Energy Storage I
102	Poster	Mudda, Ojasvi Raja, Alfiya Ahliawat, Aayushi Kulkarni, Arya	In vitro characterization of human epigenetic drugs (DNA Methyltransferase inhibitors and related) on HCT–116 Colorectal cancer cells	Aspiring Scholars Directed Research Program Aspiring Scholars Directed Research Program Aspiring Scholars Directed Research Program Aspiring Scholars Directed Research Program	Thu 10/20	4:00 PM–8:00 PM	Carson City 1&2	WRM010C: General Poster Session 1 (Biomedicine, Biotech, Biochem, Sensors & Applications)
142	Oral	Mukherjee, Nandini	Coherently controlled cold collisions of hydrogen molecules	Stanford University	Fri 10/21	10:30 AM–11:00 AM	Lake Mead 1	WRM018A: Quantum Science and Chemistry with Cold Molecules I
242	Oral	Nagib, David	Harnessing radicals to enable unconventional reactivity	The Ohio State University	Fri 10/21	4:45 PM–5:10 PM	Red Rock 6	WRM020E: Recent Breakthroughs in Organic Chemistry
305	Oral	Nagy, Gabe	High–resolution cyclic ion mobility separations of isotopologues and isotopomers	The University of Utah Department of Chemistry	Sat 10/22	9:30 AM–10:00 AM	Red Rock 7	WRM015C: Novel Applications in Mass Spectrometry I
181	Poster	Naimpally, Ashok	Life cycle water consumption assesment of electroplating rinse steel–tanks	California State University Long Beach	Fri 10/21	1:00 PM–5:00 PM	Carson City 1&2	WRM010B: General Poster Session 2 (Environmental Chemistry, Energy Storage, Education)
300	Oral	Nakritskaia, Daria	Electronic structure of multifunctional Ln–based single–molecule magnets in different environments	University of Nevada Reno; Argonne National Laboratory	Sat 10/22	9:40 AM–10:00 AM	Red Rock 6	WRM014A: Molecular Magnetism for the Advancement of Quantum Information Science I
138	Oral	Nasrin, Surya Mandal, S. Petrova, A. Boorady, L.M. Agnew, R.	Investigation of fabric properties on drying performance of knitted sportswear fabrics	Oklahoma State University College of Education and Human Sciences	Fri 10/21	11:24 AM–11:42 AM	Red Rock 2	WRM017E: Progresses in Research Activities on Personal Protective Equipment (PPE) I
357	Oral	Nettles, Jared Long, T.E. Jin, K.	Influence of microcellular structure on depolymerization kinetics of crosslinked polyurethane foams under compression	Arizona State University; Arizona State University Ira A Fulton Schools of Engineering	Sat 10/22	4:24 PM–4:42 PM	Red Rock 3	WRM021F: Recent Trends in Polymer Chemistry and Sustainable Materials VI
204	Oral	Neufeldt, Sharon	Divergent oxidative addition mechanisms for Pd(0) and implications for selectivity	Montana State University	Fri 10/21	2:00 PM–2:30 PM	Red Rock 4	WRM012B: Innovating Organometallics III
261	Poster	Nguyen, Ashley	Light and catalyst–promoted inherent and regioselective perfluoroalkylation of arenes and heteroarenes	San Diego State University College of Sciences	Fri 10/21	5:00 PM–9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
125	Oral	Nguyen, Hillary Boyle, B.T. Jones, B. Anderson, M. McNally, A.	Site–selective pyridine functionalization via nucleophilic additions to activated Pyridiniums	Colorado State University	Fri 10/21	8:35 AM–9:00 AM	Red Rock 4	WRM012A: Innovating Organometallics II

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248	Poster	Nguyen, Kenneth	High-boiling point solvents for molecular-scale conductance measurements	University of Southern California	Fri 10/21	5:00 PM–9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
341	Oral	Nippe, Michael	Generating magnetic Anisotropy through exchange and ligand fields	Texas A&M University System	Sat 10/22	3:30 PM–3:50 PM	Red Rock 6	WRM014B: Molecular Magnetism for the Advancement of Quantum Information Science II
9	Oral	Obafemi, Adeyemi Harrison, R. Tinsley, C. Stecher, E.	Efficiency of zeolites modified with zinc in capturing hydrogen sulfide	Brigham Young University	Thu 10/20	11:00 AM–11:30 AM	Lake Mead 1	WRM013B: Inorganic and Materials Chemistry I
159	Oral	Oh, Edwin Vo, V. Harrington, A. Papp, K. Moser, D. Gerrity, D.	Tracking pathogens in urban and rural wastewater from Southern Nevada	University of Nevada Las Vegas	Fri 10/21	8:54 AM–9:16 AM	Red Rock 8	WRM025C: Water Contamination, Treatment, Reliability & Reuse PFAs and other Emerging Contaminants III
171	Poster	Olney, Renee	Direct dissolution and stabilization of UF6 in ionic liquid and the pathways for recovery of uranium tetrafluoride	University of Nevada Las Vegas	Fri 10/21	1:00 PM–5:00 PM	Carson City 1&2	WRM010B: General Poster Session 2 (Environmental Chemistry, Energy Storage, Education)
269	Poster	Organiscak, Marisa M Organiscak	Synthesis and late-stage functionalization of iludalic acid and its analogs	West Virginia University	Fri 10/21	5:00 PM–9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
25	Oral	Orgill, MaryKay	Where do we go from here? Using lessons from the pandemic to inform future chemistry teaching	University of Nevada Las Vegas	Thu 10/20	2:05 PM–2:50 PM	Red Rock 8	WRM007E: Education During the COVID–19 Pandemic. A New Virtual reality and Preparing K–12 Students for a Future in STEM
339	Oral	Orlova, Angelica Varley, M. Bernbeck, M.G. Hilgar, J. Rinehart, J.D.	Intra- and inter-molecular dipolar coupling as an elegant means to low-energy magnetic excitation manifold design for lanthanide-based single-molecule magnetsw-Energy Magnetic Excitation Manifold Design for Lanthanide-Based Single-Molecule Magnets	University of California San Diego	Sat 10/22	2:00 PM–2:20 PM	Red Rock 6	WRM014B: Molecular Magnetism for the Advancement of Quantum Information Science II
80	Poster	Padilla, Cassandra	Chemical composition of aerosols from vaping e-liquids containing cannabidiol (CBD) and various flavoring compounds	University of California Davis	Thu 10/20	4:00 PM–8:00 PM	Carson City 1&2	WRM010C: General Poster Session 1 (Biomedicine, Biotech, Biochem, Sensors & Applications)
321	Oral	Parr, Jessica	Using more laboratory instruction to engage students in general chemistry	University of Southern California	Sat 10/22	2:39 PM–3:00 PM	Red Rock 8	WRM001E: Advances in Undergraduate Chemistry Education Amid Challenging Times II
48	Oral	Patenaude, Hannah Damjanovic, N. Rakos, J.M. Gonzalez, K. Branch, S.D. Rusinek, C.A.	Electrochemical characterization of molten salt fuel systems with boron-doped diamond	University of Nevada Las Vegas	Thu 10/20	3:00 PM–3:30 PM	Lake Mead 1	WRM013E: Inorganic and Materials Chemistry II
326	Oral	Pecic, Stevan	Course-based Undergraduate Research Experience lab: Design, synthesis and biological evaluation of new Alzheimer's disease therapeutics	California State University Fullerton	Sat 10/22	4:54 PM–5:15 PM	Red Rock 8	WRM001E: Advances in Undergraduate Chemistry Education Amid Challenging Times II
96	Poster	Pennington, Jess	Choline geranate-based ionic liquid/deep eutectic solvents targeting biofilms of common pathogens found in dental plaque	Northern Arizona University	Thu 10/20	4:00 PM–8:00 PM	Carson City 1&2	WRM010C: General Poster Session 1 (Biomedicine, Biotech, Biochem, Sensors & Applications)
284	Oral	Pham, Duyen Ye, L.	Supplemental instruction in an introductory chemistry course: The effectiveness of the program in virtual format and a case study	California State University Northridge	Sat 10/22	10:51 AM–11:12 AM	Red Rock 8	WRM001A: Advances in Undergraduate Chemistry Education Amid Challenging Times I
84	Poster	Piccinini, Anastasia	Trace metals from nicotine-containing electronic cigarette aerosols under a variety of e-liquid and device operation conditions	University of California Davis	Thu 10/20	4:00 PM–8:00 PM	Carson City 1&2	WRM010C: General Poster Session 1 (Biomedicine, Biotech, Biochem, Sensors & Applications)
330	Oral	Pierce, John	Liquid carbon dioxide extraction of cannabis coupled with in-line adsorbents and a solvent modifier, benefits and unintended consequences	Alden Botanica LLC	Sat 10/22	2:36 PM–2:58 PM	Red Rock 5	WRM009C: Emerging Research in Cannabis Science II
108	Poster	Pingleton, Gabrielle	Chemometric analyses of cosmetics for forensic applications	Embry-Riddle Aeronautical University	Thu 10/20	4:00 PM–8:00 PM	Carson City 1&2	WRM010C: General Poster Session 1 (Biomedicine, Biotech, Biochem, Sensors & Applications)
157	Oral	Plantz, Gina	TBD	Haley & Aldrich	Fri 10/21	11:00 AM–11:30 AM	Red Rock 5	WRM024A: Vapor Intrusion, Environment Preservation and Human Health

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158	Oral	Pochampally, Suraj Venkat Hernandez, E. Ung-Watson, K. Moon, J. Marti, E.J.	A study on the effect of acid exfoliation and alkali intercalation on biochar for chlorinated hydrocarbon removal from groundwater	University of Nevada Las Vegas	Fri 10/21	8:32 AM–8:54 AM	Red Rock 8	WRM025C: Water Contamination, Treatment, Reliability & Reuse PFAs and other Emerging Contaminants III
151	Oral	Price, Mariel Miyake, G. Wiedenbeck, A. Harry, K. Chrisman, C.	Poly(trithiolanes): A unique class of sulfur-containing chemically recyclable polymers	Colorado State University	Fri 10/21	11:15 AM–11:33 AM	Red Rock 3	WRM021C: Recent Trends in Polymer Chemistry and Sustainable Materials III
308	Oral	Puffer, Katherine Corbin, D. Miyake, G.	Alkyl core substitution of organic photocatalysts for tuning performance in organocatalyzed atom transfer radical polymerization	Colorado State University College of Natural Sciences	Sat 10/22	8:30 AM–8:48 AM	Red Rock 3	WRM021E: Recent Trends in Polymer Chemistry and Sustainable Materials V
169	Poster	Pumford, Elizabeth	Sustainable biomass-derived polymers for commercial applications	University of California Los Angeles	Fri 10/21	1:00 PM–5:00 PM	Carson City 1&2	WRM010B: General Poster Session 2 (Environmental Chemistry, Energy Storage, Education)
152	Oral	Pyun, Jeffrey	Sustainable fossil fuels chemistry via direct polymerization of elemental sulfur and low cost sulfur base chemicals	The University of Arizona College of Science	Fri 10/21	11:33 AM–12:00 PM	Red Rock 3	WRM021C: Recent Trends in Polymer Chemistry and Sustainable Materials III
229	Oral	Quinn, Ethan Chen, E.Y.	Toughening poly(3-hydroxybutyrate) via stereomicrostructural engineering	Colorado State University	Fri 10/21	4:15 PM–4:33 PM	Red Rock 3	WRM021D: Recent Trends in Polymer Chemistry and Sustainable Materials IV
304	Oral	qu, Jun	A FAIMS-dCV/SRM-MS method for ultra-sensitive targeted protein quantification	SUNY Buffalo, University at Buffalo, Buffalo, NY, US, academic	Sat 10/22	9:00 AM–9:30 AM	Red Rock 7	WRM015C: Novel Applications in Mass Spectrometry I
170	Poster	Rakos, Jason	Detection of perchlorate using square wave anodic stripping voltammetry on carbon electrodes	University of Nevada Las Vegas	Fri 10/21	1:00 PM–5:00 PM	Carson City 1&2	WRM010B: General Poster Session 2 (Environmental Chemistry, Energy Storage, Education)
265	Poster	Rauh, Hannah	Nickel-mediated intermolecular four-fold arylation of an alkyne	California Polytechnic State University	Fri 10/21	5:00 PM–9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
120	Oral	Ray, Tyler	3D-printed skin-interfaced microfluidic systems for sweat capture and analysis	University of Hawai'i at Manoa; University of Hawai'i at Manoa John A Burns School of Medicine	Fri 10/21	10:30 AM–11:00 AM	Red Rock 7	WRM006A: Chemical Sensors with a Focus on Wearables and Health Related Measurements I
66	Oral	Read De Alaniz, Javier	Taming the reactivity of cyclopentadiene to enable new applications in materials	University of California Santa Barbara	Thu 10/20	3:03 PM–3:30 PM	Red Rock 3	WRM021B: Recent Trends in Polymer Chemistry and Sustainable Materials II
72	Oral	Reddy, Yeddula kirar, s. Thakur, N. Patil, M.D. Bhaumik, J.	Photocatalytic remediation of kraft lignin to value-added chemicals	Center of Innovative and Applied Bioprocessing; Indian Institute of Science Education and Research Mohali	Thu 10/20	2:24 PM–2:46 PM	Red Rock 7	WRM025B: Water Contamination, Treatment, Reliability & Reuse PFAs and other Emerging Contaminants II
107	Poster	Reece, Gabriella	Analysis of cosmetics as trace evidence	Embry-Riddle Aeronautical University	Thu 10/20	4:00 PM–8:00 PM	Carson City 1&2	WRM010C: General Poster Session 1 (Biomedicine, Biotech, Biochem, Sensors & Applications)
97	Poster	Rego, Daniel	Triiodide polymer surface coating as a novel broad spectrum controlled delivery anti-microbial: A favorable alternative for anti-microbial coatings	Scientific Consultant	Thu 10/20	4:00 PM–8:00 PM	Carson City 1&2	WRM010C: General Poster Session 1 (Biomedicine, Biotech, Biochem, Sensors & Applications)
313	Oral	Reilly, Liam Chen, E.Y.	Exploiting the intersection of thermodynamic and kinetic control in Lewis pair polymerization	Colorado State University	Sat 10/22	10:30 AM–10:48 AM	Red Rock 3	WRM021E: Recent Trends in Polymer Chemistry and Sustainable Materials V
312	Oral	Rettner, Emma Miyake, G.	Utilizing bottlebrush copolymer architecture to drive toward rectilinear microstructures	Colorado State University	Sat 10/22	9:42 AM–10:00 AM	Red Rock 3	WRM021E: Recent Trends in Polymer Chemistry and Sustainable Materials V
90	Poster	Reynoso Rivas, Maria Del Carmen	Targeted identification and quantification of amino acids in metabolomics studies using 19F NMR: A proof-of-concept application to citrus varieties.	California State University Fresno	Thu 10/20	4:00 PM–8:00 PM	Carson City 1&2	WRM010C: General Poster Session 1 (Biomedicine, Biotech, Biochem, Sensors & Applications)
999	Oral	Rice, Will	Navigating Vapor Intrusion and California Development: How to Generate Air Data Strong Enough to Carry Projects Forward		Fri 10/21	11:30 AM–12:00 PM	Red Rock 5	WRM024A: Vapor Intrusion, Environment Preservation and Human Health
345	Oral	Rico, Benjamin Pomeroy, R.S. Prather, K.A.	Real time mass spectrometry using a chemical ionization source on a commercially available mass spectrometer: Do you really need a column?	University of California San Diego	Sat 10/22	2:00 PM–2:30 PM	Red Rock 7	WRM015E: Novel Applications in Mass Spectrometry II

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338	Oral	Rinehart, Jeffrey Orlova, A. Bernbeck, M.G. Hilgar, J. Chavez, Z.R. Gembicky, M. Varley, M. Oh, H.	Fine control of the electron spin wavefunction using magnetic dipoles: Re-framing molecular magnetism in the context of quantum logic gates	University of California San Diego	Sat 10/22	1:30 PM–2:00 PM	Red Rock 6	WRM014B: Molecular Magnetism for the Advancement of Quantum Information Science II
281	Oral	Rocabado, Guizella Wilkes, C.	Is general chemistry too costly? How different groups of students perceive the effort and emotional costs of taking a chemistry course and the relationship to achievement	Southern Utah University	Sat 10/22	9:18 AM–9:39 AM	Red Rock 8	WRM001A: Advances in Undergraduate Chemistry Education Amid Challenging Times I
327	Oral	Rodriguez, Karla	Introduction to cannabis vape emissions testing: Dosing	Enthalpy CSV, Inc	Sat 10/22	1:30 PM–1:52 PM	Red Rock 5	WRM009C: Emerging Research in Cannabis Science II
18	Oral	Rodriguez, Oscar	Microplastics contamination: challenge, current approaches and treatment perspectives	Centro de Innovacion Aplicada en Tecnologias Competitivas	Thu 10/20	10:02 AM–10:24 AM	Red Rock 7	WRM025A: Water Contamination, Treatment, Reliability & Reuse PFAs and other Emerging Contaminants I
35	Oral	Rolston, Nick Sahal, M. Molloy, J. Tang, W.	Robust and lightweight thin-film Solid State electrolytes processed in open air	Arizona State University Ira A Fulton Schools of Engineering	Thu 10/20	4:00 PM–4:30 PM	Red Rock 6	WRM008E: Emerging Materials and Processes for Electrochemical Energy Storage II
206	Oral	Rousseaux, Sophie	Ni-catalyzed synthesis and functionalization of nitrile-containing building blocks	University of Toronto	Fri 10/21	3:30 PM–4:05 PM	Red Rock 4	WRM012B: Innovating Organometallics III
325	Oral	Rowley, John Pharr, C.R.	Assessing student learning outcomes in and publishing experimental findings from a course-based research experience (CURE)	Carroll College	Sat 10/22	4:33 PM–4:54 PM	Red Rock 8	WRM001E: Advances in Undergraduate Chemistry Education Amid Challenging Times II
212	Oral	Ruppert-Stroescu, Mary	Evaluating insulative materials for conductive thread	Washington University in St. Louis	Fri 10/21	2:24 PM–2:42 PM	Red Rock 2	WRM017A: Progresses in Research Activities on Personal Protective Equipment (PPE) II
202	Oral	Russo, Matthew Ozer, T. Henry, C.	Ion-selective thermoplastic electrodes with reduced biofouling properties for potentiometric sensing	Colorado State University	Fri 10/21	4:30 PM–5:00 PM	Red Rock 7	WRM006C: Chemical Sensors with a Focus on Wearables and Health Related Measurements II
114	Oral	Salinas, Kelly	Plant-derived products of <i>Caspella bursa-pastoris</i> and <i>Parthenium hysterophorus</i> and their biological effects on <i>Escherichia coli</i> and triple negative breast cancer	The University of Texas Health Science Center at San Antonio; Our Lady of the Lake University of San Antonio	Fri 10/21	10:30 AM–10:47 AM	Lake Mead 2	WRM004A: Biotechnology & Biomedicine
62	Oral	Samia, Adam Nolting, D.D. Lapka, J. Charlton, W.	Pre-concentration of reactor produced theragnostic radionuclides onto a carbon nanotube adsorbent via the Szilard-Chalmers effect	The University of Texas at Austin	Thu 10/20	5:30 PM–5:48 PM	Red Rock 5	WRM019A: Radiochemical Separations for Nuclear Forensics and Nuclear Medicine
27	Oral	Sansom, Rebecca	Pivot or Pivotal Moment: Can pandemic changes translate to post-pandemic transformations?	Brigham Young University	Thu 10/20	3:10 PM–3:30 PM	Red Rock 8	WRM007E: Education During the COVID-19 Pandemic. A New Virtual reality and Preparing K-12 Students for a Future in STEM
205	Oral	Schmidt, Valerie	Merging coordination and photochemistry to enable alkene activation strategies	University of California San Diego	Fri 10/21	2:30 PM–3:00 PM	Red Rock 4	WRM012B: Innovating Organometallics III
124	Oral	Semyonov, Alexander	Applications of ion chromatography (IC) and ion chromatography – mass spectrometry (IC-MS) to the field of lithium ion batteries: An overview	Thermo Fisher Scientific Inc	Fri 10/21	9:00 AM–9:30 AM	Red Rock 6	WRM008A: Emerging Materials and Processes for Electrochemical Energy Storage III
232	Oral	Serrano, Pauline	Building the rocket mid flight: experiences and approaches to safety culture and EHS program management	Greenlight Biosciences Inc	Fri 10/21	2:00 PM–2:30 PM	Red Rock 8	WRM026A: What does health and safety look like in your workplace?
268	Poster	Shah, Ishaan	Tuning the geometry and electronic structure of core-shell plasmonic nanoparticles	Chapman University System	Fri 10/21	5:00 PM–9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
47	Oral	shah, kinnari Ravindra, N.M.	Self-assembly of particles on surface of drops	New Jersey Institute of Technology	Thu 10/20	2:30 PM–3:00 PM	Lake Mead 1	WRM013E: Inorganic and Materials Chemistry II
192	Oral	Shah, Sunil Sabatino, D.	siRNA bioconjugates, nanoparticle formulations & its anti-cancer applications	Seton Hall University	Fri 10/21	1:36 PM–2:04 PM	Lake Mead 2	WRM003A: Biochemistry of COVID and Other Infectious Diseases
196	Oral	Shatirishvili, Nino	Ultrasensitive detection of SARS-CoV-2 proteins using multi-photon nonlinear laser wave-mixing spectroscopy	San Diego State University; University of California San Diego	Fri 10/21	3:58 PM–4:26 PM	Lake Mead 2	WRM003A: Biochemistry of COVID and Other Infectious Diseases
210	Oral	Shaw, Anugrah	A new method to measure pesticide residue in reusable garments worn by pesticide operators	University of Maryland Eastern Shore	Fri 10/21	1:48 PM–2:06 PM	Red Rock 2	WRM017A: Progresses in Research Activities on Personal Protective Equipment (PPE) II
278	Poster	Shi, Changxia	Hybrid monomer design towards intrinsically circular and high-performance polymers	Colorado State University	Fri 10/21	5:00 PM–9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
314	Oral	Shi, Changxia	Hybrid monomer design towards intrinsically circular and high-performance polymers	Colorado State University	Sat 10/22	10:48 AM–11:06 AM	Red Rock 3	WRM021E: Recent Trends in Polymer Chemistry and Sustainable Materials V

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163	Oral	Shipley, Sarah Woodard, S. Nickelsen, M.	Destruction of PFAS in IX still bottoms: Finding the right fit	ECT2	Fri 10/21	10:52 AM–11:14 AM	Red Rock 8	WRM025C: Water Contamination, Treatment, Reliability & Reuse PFAs and other Emerging Contaminants III
328	Oral	Siegel, Alex	Analysis of cannabis oil pigments using fluorescence spectrometers	VSW Remediation	Sat 10/22	1:52 PM–2:14 PM	Red Rock 5	WRM009C: Emerging Research in Cannabis Science II
11	Oral	Simpson, Scott	The search for molecular corks beyond carbon monoxide: A quantum mechanical study of N-Heterocyclic carbene adsorption on Pd/Cu(111) and Pt/Cu(111) single atom alloys	St. Bonaventure University	Thu 10/20	12:00 PM–12:30 PM	Lake Mead 1	WRM013B: Inorganic and Materials Chemistry I
71	Oral	Simpson, Scott Antle, J. Halwatura, L. Aga, D.S.	Utilizing quality structure retention relationships to predict retention times for per-/Poly-Fluoroalkyl substances (PFAS)	St. Bonaventure University	Thu 10/20	2:02 PM–2:24 PM	Red Rock 7	WRM025B: Water Contamination, Treatment, Reliability & Reuse PFAs and other Emerging Contaminants II
19	Oral	Sims, Douglas Monk, J. Garner, M.C. Hudson, A. Aguaiza, C. Lindley, K.	Pharmaceutical and illicit drug pollution of the Las Vegas Wash ecosystem during a professional sporting event	College of Southern Nevada	Thu 10/20	10:24 AM–10:46 AM	Red Rock 7	WRM025A: Water Contamination, Treatment, Reliability & Reuse PFAs and other Emerging Contaminants I
20	Oral	Sims, Douglas Monk, J. Garner, M.C. Hudson, A. Aguaiza, C. Lindley, K.	Pharmaceutical and illicit drug pollution of the Las Vegas Wash ecosystem during a music festival	College of Southern Nevada	Thu 10/20	10:46 AM–11:08 AM	Red Rock 7	WRM025A: Water Contamination, Treatment, Reliability & Reuse PFAs and other Emerging Contaminants I
358	Oral	Sintas, Jose Long, T.E.	Tunable non-isocyanate polyurethane foams for rigid and soft applications	Arizona State University	Sat 10/22	4:42 PM–5:00 PM	Red Rock 3	WRM021F: Recent Trends in Polymer Chemistry and Sustainable Materials VI
135	Oral	Song, Guowen	A convergent multidisciplinary approach for cold weather protection	Iowa State University	Fri 10/21	10:30 AM–10:48 AM	Red Rock 2	WRM017E: Progresses in Research Activities on Personal Protective Equipment (PPE) I
6	Oral	Spence, Stephanie Lin, F.	Mapping the spatial distribution and evolution of lattice distortions in Co-free, high-voltage oxide cathode materials	Virginia Polytechnic Institute and State University	Thu 10/20	12:30 PM–1:00 PM	Red Rock 6	WRM008C: Emerging Materials and Processes for Electrochemical Energy Storage I
208	Oral	Spokovny, Alexander	Polyhedral boron cluster reagents	University of California Los Angeles	Fri 10/21	4:40 PM–5:15 PM	Red Rock 4	WRM012B: Innovating Organometallics III
193	Oral	Stec, Jozef Khan, S.M. Garcia, A. Mehraj, I. Grooms, G. Li, K. Witola, W.	Discovery and development of novel antiparasitic agents	Chicago State University, College of Pharmacy; Marshall B. Ketchum University, College of Pharmacy	Fri 10/21	2:04 PM–2:32 PM	Lake Mead 2	WRM003A: Biochemistry of COVID and Other Infectious Diseases
274	Poster	Stenlund, Tanner	Copper nanoparticle formation via sonication	Southern Utah University	Fri 10/21	5:00 PM–9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
272	Poster	Stoddard, Kylee	Fabrication and applications of PDMS frits	Southern Utah University	Fri 10/21	5:00 PM–9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
105	Poster	Stokes, Cameron	A microfluidic device for the quantitation of dissolved oxygen	Southern Utah University	Thu 10/20	4:00 PM–8:00 PM	Carson City 1&2	WRM010C: General Poster Session 1 (Biomedicine, Biotech, Biochem, Sensors & Applications)
332	Oral	Strathmann, Frederick Harris, R. McKenzie-Coe, A. McBee, J. Carroll, F.	Taking a non-linear path to solving our problems: One second gas-phase separations of cannabinoid and PFAS isomers with high-resolution ion mobility	MOBILion Systems, Inc.	Sat 10/22	3:52 PM–4:14 PM	Red Rock 5	WRM009C: Emerging Research in Cannabis Science II
289	Oral	Strull, Jason	"Pot Holes" and "Side Trips" during Cannabis Cultivation: Longitudinal micro and macro elemental analysis in cannabis crops explained	374 Labs	Sat 10/22	9:16 AM–9:38 AM	Red Rock 5	WRM009A: Emerging Research in Cannabis Science I
241	Oral	Stuart, David	Aryne formation via formal dehydrogenation of simple arenes	Portland State University	Fri 10/21	4:20 PM–4:45 PM	Red Rock 6	WRM020E: Recent Breakthroughs in Organic Chemistry
216	Oral	Sun, Gang	Development of antibacterial and antiviral fibrous materials for improved personal protection	University of California Davis	Fri 10/21	4:18 PM–4:36 PM	Red Rock 2	WRM017A: Progresses in Research Activities on Personal Protective Equipment (PPE) II
137	Oral	Talukder, Amit Freeman, Charles Chander, H. Burch, R. Saucier, D.	Biomechanical, physiological, and subjective perception assessment of personal flotation devices (PFD)	Mississippi State University Mississippi State University	Fri 10/21	11:06 AM–11:24 AM	Red Rock 2	WRM017E: Progresses in Research Activities on Personal Protective Equipment (PPE) I
251	Poster	Taylor, Trevor	Exploring new physics with Molecular Ions	University of Nevada Las Vegas	Fri 10/21	5:00 PM–9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)

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255	Poster	Tejada, Urian	Supercontinuum white light generation in water for a high repetition rate transient absorption system	University of Southern California	Fri 10/21	5:00 PM–9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
160	Oral	Telenar, Taysha shokrollahzadeh h. Weyhrich, C.W. Green, M. Long, T.E.	Synthesis, additive manufacturing, and performance of polysulfone membranes for separation processes	Arizona State University; Arizona State University	Fri 10/21	9:16 AM–9:38 AM	Red Rock 8	WRM025C: Water Contamination, Treatment, Reliability & Reuse PFAs and other Emerging Contaminants III
58	Oral	Tkac, Peter Bettinardi, D.	Repeated Recycle of Enriched 98,100Mo material for production of 99Mo	Argonne National Laboratory	Thu 10/20	4:18 PM–4:36 PM	Red Rock 5	WRM019A: Radiochemical Separations for Nuclear Forensics and Nuclear Medicine
83	Poster	Tolley, William	Elucidating responses of silicon-based polymers for chemical detectors	Seacoast Science, Inc.	Thu 10/20	4:00 PM–8:00 PM	Carson City 1&2	WRM010C: General Poster Session 1 (Biomedicine, Biotech, Biochem, Sensors & Applications)
153	Oral	Tolley, William	Innovative multi-mode sampler for efficient thermal desorption studies	Seacoast Science, Inc.	Fri 10/21	8:30 AM–9:00 AM	Red Rock 5	WRM024A: Vapor Intrusion, Environment Preservation and Human Health
79	Poster	Tolley, William	Chemical selectivity from polymer-based chemical detectors	Seacoast Science, Inc.	Thu 10/20	4:00 PM–8:00 PM	Carson City 1&2	WRM010C: General Poster Session 1 (Biomedicine, Biotech, Biochem, Sensors & Applications)
187	Poster	Tran, Lillian	Second-order kinetic rate coefficients for the aqueous-phase sulfate radical (SO ₄) oxidation of isoprene-derived and other atmospherically relevant compounds	University of California Davis	Fri 10/21	1:00 PM–5:00 PM	Carson City 1&2	WRM010B: General Poster Session 2 (Environmental Chemistry, Energy Storage, Education)
256	Poster	Tran, Viet	Building a ruthenium analogue of a well studied iron system	University of California San Diego	Fri 10/21	5:00 PM–9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
141	Oral	Tscherbul, Timur	Magnetically tunable electric dipolar interactions and robust nuclear spin entanglement in polar molecules	University of Nevada Reno	Fri 10/21	9:30 AM–10:00 AM	Lake Mead 1	WRM018A: Quantum Science and Chemistry with Cold Molecules I
230	Oral	Uhrich, Kathryn	Designing degradable polymeric bioactives: Polyactives and sugar-based amphiphiles	University of California, Riverside	Fri 10/21	4:33 PM–5:00 PM	Red Rock 3	WRM021D: Recent Trends in Polymer Chemistry and Sustainable Materials IV
350	Oral	Vandenbrande, Johanna Williams, C. Long, T.E.	Pegylated polyimides for 3D printing nanoporous objects	Arizona State University	Sat 10/22	1:48 PM–2:06 PM	Red Rock 3	WRM021F: Recent Trends in Polymer Chemistry and Sustainable Materials VI
224	Oral	Van Horn, Brooke	Adventures in building and evaluating degradable polyesters of epsilon-caprolactone for biomedical applications	College of Charleston	Fri 10/21	1:57 PM–2:15 PM	Red Rock 3	WRM021D: Recent Trends in Polymer Chemistry and Sustainable Materials IV
291	Oral	Vanselow, Christopher Rendek, K. Carter, K. Ramirez, B. Matarese, J. Mazzeo, E. Joellsson, A. Brown, A. Moore, B. McIntyre, M.	Gender identification using RT-PCR: Applications in Cannabis sativa cultivation	Treehouse Laboratories	Sat 10/22	10:30 AM–10:52 AM	Red Rock 5	WRM009A: Emerging Research in Cannabis Science I
298	Oral	Varganov, Sergey Nakritskaia, D.D. Dergachev, V.	Spin relaxation in lanthanide-based single-ion magnets	University of Nevada Reno	Sat 10/22	9:00 AM–9:20 AM	Red Rock 6	WRM014A: Molecular Magnetism for the Advancement of Quantum Information Science I
91	Poster	Vega, Crystal Brown, Jacob Keshavarz, Amir Alvarez, Marcos Baghdasarian, Glen	Enhancing the antifungal activity of a silver cluster with quinones	Los Angeles City College Los Angeles City College Los Angeles City College Los Angeles City College Los Angeles City College	Thu 10/20	4:00 PM–8:00 PM	Carson City 1&2	WRM010C: General Poster Session 1 (Biomedicine, Biotech, Biochem, Sensors & Applications)
277	Poster	Viswanath, Lakshmi	Investigation on the axial reactivity of substituted hybrid subphthalocyanine-subnaphthalocyanine ensembles	Utah Valley University	Fri 10/21	5:00 PM–9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
31	Oral	Voronova, Krisztina Graham, K. Ochsenrider, K. Yang, Y.	Discover Chemistry Demonstration Series: An outreach program for K–12 students	University of Nevada Reno	Thu 10/20	5:00 PM–5:20 PM	Red Rock 8	WRM007E: Education During the COVID–19 Pandemic. A New Virtual reality and Preparing K–12 Students for a Future in STEM

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116	Oral	Vo, Van Harrington, A. Chang, C. Kan, H. Lockett, C. Gerrity, D. Oh, E.	Association of influenza H3N2 RNA in elementary school wastewater with confirmed cases in Las Vegas, Nevada	University of Nevada Las Vegas; University of Nevada Las Vegas College of Sciences	Fri 10/21	11:15 AM–11:32 AM	Lake Mead 2	WRM004A: Biotechnology & Biomedicine
118	Oral	Wang, Joseph	Special presentation	University of California San Diego Jacobs School of Engineering	Fri 10/21	8:30 AM–9:30 AM	Red Rock 7	WRM006A: Chemical Sensors with a Focus on Wearables and Health Related Measurements I
1	Oral	Wang, Wei	Accelerating material design for aqueous organic redox flow batteries	Pacific Northwest National Laboratory	Thu 10/20	10:00 AM–10:30 AM	Red Rock 6	WRM008C: Emerging Materials and Processes for Electrochemical Energy Storage I
333	Oral	Watson, Donald	Recent advances in AZA–Heck cyclizations	University of Delaware	Sat 10/22	1:30 PM–2:15 PM	Red Rock 4	WRM012D: Innovating Organometallics V
336	Oral	Watson, Mary	Deaminative Cross–Couplings	University of Delaware	Sat 10/22	4:10 PM–4:50 PM	Red Rock 4	WRM012D: Innovating Organometallics V
190	Poster	Weber, Dustyn	Electrochemical investigation of tetrahedral amorphous carbon electrodes	University of Nevada Las Vegas	Fri 10/21	1:00 PM–5:00 PM	Carson City 1&2	WRM010B: General Poster Session 2 (Environmental Chemistry, Energy Storage, Education)
65	Oral	Wen, Jianheng Feller, K. Bean, R. Williams, C. Long, T.E.	3D printing elastomeric latexes of sulfonated ethylene–propylene–diene monomer (EPDM) copolymers	Arizona State University	Thu 10/20	2:45 PM–3:03 PM	Red Rock 3	WRM021B: Recent Trends in Polymer Chemistry and Sustainable Materials II
266	Poster	Werner, Nathan	9–Borobicyclo[3.3.1]nonane–catalyzed hydroboration of terminal aromatic alkynes with pinacolborane	Southern Utah University	Fri 10/21	5:00 PM–9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
34	Oral	Westover, Andrew Kalnaus, S. Herbert, E. Dudney, N.	Mechanical paradigm for solid state batteries: rigid Li metal and ductile ceramics	Oak Ridge National Laboratory	Thu 10/20	3:00 PM–3:30 PM	Red Rock 6	WRM008E: Emerging Materials and Processes for Electrochemical Energy Storage II
147	Oral	Westover, Clarissa Sintas, J.I. Long, T.E.	Location–specific reactivity in segmented polyurethanes to enable segmental depolymerization	Arizona State University; Arizona State University	Fri 10/21	9:15 AM–9:33 AM	Red Rock 3	WRM021C: Recent Trends in Polymer Chemistry and Sustainable Materials III
64	Oral	Weyhrich, Cody Will, J. Heifferon, K.V. Brown, J.R. Arrington, C. Meenakshisundaram, V. Williams, C. Long, T.E.	3D–printing of poly(arylene ether sulfone)s: Functional high–performance polymers for vat photopolymerization	Arizona State University	Thu 10/20	2:27 PM–2:45 PM	Red Rock 3	WRM021B: Recent Trends in Polymer Chemistry and Sustainable Materials II
337	Oral	White, Maria–Christina	TBA	University of Illinois Urbana–Champaign	Sat 10/22	4:50 PM–5:30 PM	Red Rock 4	WRM012D: Innovating Organometallics V
316	Oral	Wiedenbeck, Analiese Price, M. Harry, K. Chrisman, C. Miyake, G.	Chemical, thermal, and light–driven depolymerization of poly(trithiolanes) to monomer	Colorado State University	Sat 10/22	11:24 AM–11:42 AM	Red Rock 3	WRM021E: Recent Trends in Polymer Chemistry and Sustainable Materials V
271	Poster	Williams, Brandon	Extraction equilibria and kinetics in Mo(VI) liquid–liquid extraction from nitric acid	University of Nevada Las Vegas	Fri 10/21	5:00 PM–9:00 PM	Carson City 1&2	WRM010A: General Poster Session 3 (Organometallics, Organic, Inorganic, Materials, Physical Chem)
334	Oral	Wolfe, John	Recent developments in palladium–catalyzed alkene difunctionalization reactions	University of Michigan	Sat 10/22	2:15 PM–3:00 PM	Red Rock 4	WRM012D: Innovating Organometallics V
311	Oral	Wolff, Anna Puffer, K. Miyake, G.	Radical addition of alkyl halide initiator fragments for the design of improved organic photoredox catalysts for O–ATRP	Colorado State University	Sat 10/22	9:24 AM–9:42 AM	Red Rock 3	WRM021E: Recent Trends in Polymer Chemistry and Sustainable Materials V
223	Oral	Wooley, Karen	Metamorphic structural diversity for sustainable, degradable polymers derived from carbohydrates & an introduction to RESURGE	Texas A&M University	Fri 10/21	1:30 PM–1:57 PM	Red Rock 3	WRM021D: Recent Trends in Polymer Chemistry and Sustainable Materials IV
209	Oral	Xiang, Chunhui	ϵ –Poly–L–lysine/polyamide nanocomposite membrane for respiratory protective devices	Iowa State University	Fri 10/21	1:30 PM–1:48 PM	Red Rock 2	WRM017A: Progresses in Research Activities on Personal Protective Equipment (PPE) II
148	Oral	Xia, Yan	Degradable plastic materials from ring–opening metathesis copolymerization of cyclic enol ethers	Stanford University	Fri 10/21	9:33 AM–10:00 AM	Red Rock 3	WRM021C: Recent Trends in Polymer Chemistry and Sustainable Materials III
165	Poster	Xiong, Alina	Phylogenetic and biochemical analysis of a filamentous algae locally thriving in recharging basins and its use as a potential tool for lowering nutrient load in wastewaters	California State University Fresno	Fri 10/21	1:00 PM–5:00 PM	Carson City 1&2	WRM010B: General Poster Session 2 (Environmental Chemistry, Energy Storage, Education)

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36	Oral	Xiong, Hui	Multiphase layered transition metal oxide positive electrodes for sodium ion batteries	Boise State University	Thu 10/20	4:30 PM–5:00 PM	Red Rock 6	WRM008E: Emerging Materials and Processes for Electrochemical Energy Storage II
4	Oral	Xu, Wu Zhang, J. Cao, X.	Developing advanced electrolytes for high-voltage lithium metal batteries	Pacific Northwest National Laboratory	Thu 10/20	11:30 AM–12:00 PM	Red Rock 6	WRM008C: Emerging Materials and Processes for Electrochemical Energy Storage I
143	Oral	Yang, Dongzheng	Full-dimensional time-independent close-coupling approach to atom-triatom collisions	University of New Mexico College of Arts and Sciences	Fri 10/21	11:00 AM–11:30 AM	Lake Mead 1	WRM018A: Quantum Science and Chemistry with Cold Molecules I
130	Oral	Yang, Yang	New-to-nature metalloredox biocatalysis for stereoselective radical transformations	University of California Santa Barbara; University of California Santa Barbara	Fri 10/21	11:30 AM–12:00 PM	Red Rock 4	WRM012A: Innovating Organometallics II
70	Oral	Yang, Ying	Dithioacetal-based dynamic polymers with entropically driven ring-chain equilibrium	University of Nevada Reno	Thu 10/20	5:03 PM–5:30 PM	Red Rock 3	WRM021B: Recent Trends in Polymer Chemistry and Sustainable Materials II
199	Oral	Yanik, A. Ali	Electro-plasmonic wireless biosensors: A four-decade leap in microelectrode techniques	University of California, Santa Cruz; California Institute for Quantitative Biosciences (QB3)	Fri 10/21	2:30 PM–3:00 PM	Red Rock 7	WRM006C: Chemical Sensors with a Focus on Wearables and Health Related Measurements II
197	Oral	Yan, Zheng	Laser-scribed molybdenum dioxide for multimodal Janus on-skin bioelectronics	University of Missouri	Fri 10/21	1:30 PM–2:00 PM	Red Rock 7	WRM006C: Chemical Sensors with a Focus on Wearables and Health Related Measurements II
140	Oral	Ye, Jun	Quantum degenerate gas of polar molecules	JILA	Fri 10/21	8:45 AM–9:30 AM	Lake Mead 1	WRM018A: Quantum Science and Chemistry with Cold Molecules I
113	Oral	Yeung, Wilson Cable, C. Meeds, C. Anderson, A. Reynolds, J. Cummings, C. Watts, K.	Expression of an epoxomicin non-ribosomal peptide synthetase modular protein	California Polytechnic State University	Fri 10/21	9:43 AM–10:00 AM	Lake Mead 2	WRM004A: Biotechnology & Biomedicine
174	Poster	Yoo, Geun	Crystal water in V2O5 cathode for zinc ion batteries with stable cycling stability	Gyeongsang National University	Fri 10/21	1:00 PM–5:00 PM	Carson City 1&2	WRM010B: General Poster Session 2 (Environmental Chemistry, Energy Storage, Education)
319	Oral	York, Sarah Orgill, M.	Instructors' definitions and understandings of systems thinking in the context of tertiary chemistry classrooms	University of Nevada Las Vegas	Sat 10/22	1:57 PM–2:18 PM	Red Rock 8	WRM001E: Advances in Undergraduate Chemistry Education Amid Challenging Times II
110	Oral	You, Dai-Chi Richter, D. auclair, s. siram, k.	Quinoline derivatives as potential TLR-8 selective vaccine adjuvants	University of Montana	Fri 10/21	8:52 AM–9:09 AM	Lake Mead 2	WRM004A: Biotechnology & Biomedicine
183	Poster	Young Tae, Kong	Development of college classes to improve pre-primary teachers' ability to organize arguments on social science issues (1)	Chinju National University of Education	Fri 10/21	1:00 PM–5:00 PM	Carson City 1&2	WRM010B: General Poster Session 2 (Environmental Chemistry, Energy Storage, Education)
184	Poster	Young Tae, Kong	Comparative study of chemistry content areas on new elementary science textbooks in Korea (1)	Chinju National University of Education	Fri 10/21	1:00 PM–5:00 PM	Carson City 1&2	WRM010B: General Poster Session 2 (Environmental Chemistry, Energy Storage, Education)
33	Oral	Zahiri, Benjamin Braun, P.V.	Hybrid halide solid electrolytes and bottom-up cell assembly enable high voltage solid-state lithium batteries	University of Illinois Urbana-Champaign	Thu 10/20	2:30 PM–3:00 PM	Red Rock 6	WRM008E: Emerging Materials and Processes for Electrochemical Energy Storage II
46	Oral	Zand, Tara Kennedy, M.N. Bunting, P. Xie, Y. Rinehart, J.D.	Controlled gas flow synthesis of polydopamine nanoparticles	University of California San Diego	Thu 10/20	2:00 PM–2:30 PM	Lake Mead 1	WRM013E: Inorganic and Materials Chemistry II
103	Poster	Zang, Grace Deshpande, Aditi Selvaraj, Sanjana Pragash, Prabhav Namburu, Sowkya Dee, Madison Penttila, Sofia Challagundla, Sreenidhi	The in-silico and in-vitro characterization of epigenetic drugs (BET Protein Inhibitors and related analogs) on a colorectal cell line (HCT116)	Aspiring Scholars Directed Research Program Aspiring Scholars Directed Research Program Aspiring Scholars Directed Research Program Aspiring Scholars Directed Research Program Aspiring Scholars Directed Research Program Aspiring Scholars Directed Research Program Aspiring Scholars Directed Research Program Aspiring Scholars Directed Research Program Aspiring Scholars Directed Research Program Aspiring Scholars Directed Research Program	Thu 10/20	4:00 PM–8:00 PM	Carson City 1&2	WRM010C: General Poster Session 1 (Biomedicine, Biotech, Biochem, Sensors & Applications)
228	Oral	Zhang, Zhen Chen, E.Y.	Alternating isotactic polyhydroxyalkanoates through regio- and stereo-selective polymerization	Colorado State University	Fri 10/21	3:57 PM–4:15 PM	Red Rock 3	WRM021D: Recent Trends in Polymer Chemistry and Sustainable Materials IV

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150	Oral	Zhao, Yucheng Miyake, G.	Recyclable multiblock copolymers	Colorado State University	Fri 10/21	10:57 AM–11:15 AM	Red Rock 3	WRM021C: Recent Trends in Polymer Chemistry and Sustainable Materials III
222	Oral	Zhou, Yan Taylor, T. Fernandez, R. Gutierrez, B.	Playing with molecular ions – from precision measurements to cold chemistry	University of Nevada Las Vegas	Fri 10/21	4:15 PM–4:45 PM	Lake Mead 1	WRM018E: Quantum Science and Chemistry with Cold Molecules II
76	Oral	Zoh, Kyung-Duk	Degradation of Bisphenol A (BPA) and its alternatives in the UV–LED/chlorine process: radical contribution, transformation products, and degradation mechanism	Seoul National University	Thu 10/20	4:22 PM–4:44 PM	Red Rock 7	WRM025B: Water Contamination, Treatment, Reliability & Reuse PFAs and other Emerging Contaminants II
219	Oral	Zygelman, Bernard	Gauge potentials, magnetic monopoles, and rotational dynamics of diatomic molecules	University of Nevada Las Vegas	Fri 10/21	2:30 PM–3:00 PM	Lake Mead 1	WRM018E: Quantum Science and Chemistry with Cold Molecules II