

Jennifer A. Raney

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EDUCATION

New Mexico Institute of Mining and Technology, Socorro, NM | 2024-Present

Graduate level courses in Energy Markets, Space Technology and Cybersecurity with a focus on the pending Engineering Management PhD program.

University of Kansas, Lawrence, KS | December 2012

Master of Science - Environmental Science, School of Engineering

Completed engineering track coursework in fundamental concepts specific to biological, physical, and chemical engineering principles. M.S. Project focus on bioremediation and risk assessment at a geologic carbon storage site.

Tulane University, New Orleans, LA | May 2009

Bachelor of Science in Environmental Science, Cum Laude, School of Science and Engineering, *Minor in German*
Study abroad program at the University of Sydney, 50% undergraduate tuition funded with merit-based scholarship.

WORK EXPERIENCE

Deputy Director – Petroleum Recovery Research Center, New Mexico Institute of Mining and Technology

Socorro, NM | September 2023 – Present

- Deputy to 32 full-time staff, 7 supported faculty at NMT and 47 Students funded on research projects in FY24.
- \$226 million research portfolio in FY 24 with 31 active research projects.
- Research topics include carbon storage, geothermal, hydrogen storage and production, critical minerals, produced water treatment, and traditional hydrocarbon research.
- PRRC funded research supports entities across the state including partner universities, national labs, and private industry, with nearly \$20 million in expenditures spent in FY23.
- The PRRC's carbon storage research portfolio alone exceeds \$130 million, with Department of Energy projects impacting both San Juan and Permian basin communities, encompassing a portion of the Navajo Nation and Jicarilla Apache Nations.
- Principal Investigator on carbon storage Class VI Primacy application on behalf of the Oil Conservation Division for the State of New Mexico.

Interim Vice President of Research, New Mexico Institute of Mining and Technology

Socorro, NM | December 2024 – February 2025

- Cabinet-level position reporting directly to New Mexico Tech's President with 15 Director-level reports
- Oversaw administration and economic development for 11 University Research centers, including;
 - Energetic Materials Research and Testing Center (EMRTC)
 - Hantush-Deju National Center for Hydrologic Innovation
 - Institute for Complex Additive Systems Analysis (ICASA)
 - Langmuir Laboratory for Atmospheric Research
 - Magdalena Ridge Observatory
 - Mount Erebus Volcano Observatory
 - National Cave and Karst Research Institute
 - New Mexico Bureau of Geology and Mineral Resources
 - New Mexico Cybersecurity Center of Excellence
 - Petroleum Recovery Research Center
 - Playas Research and Training Center (PRTC)

Energy Program Manager, Kansas Geological Survey (KGS), Lawrence, KS | 2016 – September 2023***Legislative***

- Cofounder and Director of the Kansas CCUS Task Force from 2022 to 2023, provided briefings and informational sessions with bipartisan industry partners to discuss legislative needs and technical guidelines regarding carbon capture utilization and storage projects.
- Hosted energy-related stops for KGS Annual Legislative Field Conference for state legislators to visit Kansas sites of key geologic and economic interest, including salt mines, water treatment plants, oil fields, and a CO₂ sequestration characterization site.
- Attended hearings and drafted informational briefings for Kansas House and Senate committees on CCUS topics, including senate bill 395 (2019) and three additional bills to be introduced in future Kansas legislative sessions.
- KGS representative on various research councils on CCUS, including Great Plains Institute CO₂ State Working Group, Regional Carbon Capture Deployment Initiative and the Carbon Utilization Research Council.

Project Management

- Led cradle-to-grave project management in technical research teams on more than \$20 million carbon management Department of Energy-funded grants to optimize multi-disciplinary goals within nationwide research networks.
- Acted as liaison for key statewide and national stakeholders on a routine basis, including; internal multidisciplinary team, external functional academic groups, federal award sponsors, local partners, and national level regulators.
- Demonstrated expertise in budget management, resource allocation, and risk mitigation to optimize project performance while ensuring strict adherence to timelines and scientific compliance.
- Identified promising research directions to align with national and regional trends, while still upholding the vision and mission of the KGS and Energy Research Section.
- Oversaw grants development of financial reports to identify and resolve complex financial issues and balance individual budgets ranging up to \$14.7 million, involving the sourcing, design, pricing, and labor for engineering equipment and documenting required cost share in excess of \$5 million.

Energy Program Coordinator – KGS, Lawrence, KS | 2013 – 2016

- Oversaw cradle-to-grave installation and operation of a 15-seismometer network array in Kansas to detect earthquakes and monitor for induced seismicity for a five-year multimillion dollar federal grant.
- Collaborated with Incorporated Research Institutions for Seismology (IRIS) in New Mexico to catalog KGS earthquake data and publish to a publicly available data stream.
- Presented Class VI geologic carbon sequestration and energy-related research at national technical conferences via invited talks and posters.
- Generated quarterly budget forecasts on multimillion dollar, complex technical projects as compliance and to demonstrate justification of mission in grant development.
- Managed scientific and GIS-related data used in deliverables and reporting to federal and state regulatory agencies.
- Assisted with the training and development of the project support team with scientific software, research databases, and state and federal policies to facilitate procurement of state and federal permits.

GIS Data Assistant - KGS, Lawrence, KS | 2011 - 2013**CO₂ Sequestration Project, Data Resources Library**

- Collected site-specific data and created map figures using ArcGIS to demonstrate project characterization results under regulatory guidelines established by the U.S. EPA for a Class VI Injection well permit.
- Coordinated with Kansas Department of Health and Environment to integrate hundreds of unarchived UIC Class I, water and oil well records into the appropriate KGS database system for the DOE NETL EDX platform.
- Jointly with other sections maintained both public and proprietary online databases through daily activities, such as archiving library records, retrieving well logs, and editing the state-run interactive mapper website using ArcGIS.
- Processed detailed customer requests in the Data Resources Library and provided daily website navigation assistance to the public, staff, and students.

Engineering Intern - City of Eutin Public Utilities, Eutin, Germany | Summer 2012

- Completed a fully-funded summer internship awarded by the German Federal Ministry of Education and Research.
- Outlined reports and wrote technical overviews of co-generator energy systems to update the company website.
- Visited project sites to help oversee installation of municipal and private co-generators and evaluate overall facility performance and customer satisfaction.

Water Safety Park Ranger - U.S. Army Corps of Engineers (USACE), Lawrence, KS | Summer 2010

- Responsible for sampling and reporting all daily water levels and quality of the Clinton reservoir to municipal and federal agencies on behalf of the USACE Kansas City District.
- Managed booth display and program for public engagement water safety program activities, and educational lectures.

Intern - Alliance for Affordable Energy, New Orleans, LA | Spring 2009

- Assembled extensive set of local, state, and federal demographic information covering 10 Louisiana counties.
- Formatted statistical data into databases to create maps including creating 15+ layers of data using ArcGIS software.

PROFESSIONAL DEVELOPMENT

Coursework**University of Houston, Houston, TX | (In Progress)**

Professional credential course in carbon dioxide enhanced oil recovery.

University of Kansas, Lawrence, KS | 2013-2016. Enrolled in relevant science courses, completed software training, and participated in regular technical and nontechnical professional development workshops funded by the KU Employee Tuition Assistance Program in high-conflict training, negotiation, team science building, and other self-improvement programs.

Engineering Program Management Certificate program, KU Edwards Campus, Overland Park, KS | 2014, 2015

Completed graduate courses in the Engineering Project Management Certificate program funded by KU tuition assistance program with a focus on budgeting, forecasting, task management within an engineering framework.

Lawrence Berkeley National Laboratory (LBNL) in Berkeley, CA | December 7-8, 2013. Short course on Geochemistry of Geologic CO₂ Sequestration held with the American Geophysical Union meeting.

RISE DAAD Scholars Conference, Heidelberg, Germany | 2012 – DAAD RISE scholarship awarded by the German Federal Ministry of Education and Research for research internships in science and engineering.

Committees and Community Engagement

- Interstate Oil and Gas Compact Commission (IOGCC)
 - o Public Outreach Committee, Vice-Chair nominee (Present)
 - o Regulatory Working Group Subcommittee for Class VI wells (Fall 2024 – 2025)
- New Mexico Produced Water Research Consortium, Public Outreach Committee (2026-Present)
- Chief Information Officer hiring committee, Chair (December 2024 – February 2025)
- Building an Advanced Energy Ecosystem Conference, NM Women Lead, Agenda Steering Committee (2024-present)
- Subscriptions Advisory Board – NMT Skeen library, reviewing University subscriptions for academic journals. Monthly review meetings. (2024 – present)
- Leadership Lawrence Community Health Committee Volunteer | (2021 – 2022)
- Leadership Lawrence Class | (2020)
- Lawrence Chamber of Commerce Committee member | (2020 – 2022)
- KU Staff Senate, R&D Representative | (2019 – 2021)
- KU Senate Diversity, Equity, Inclusion, Belonging (DEIB) Committee | (2020 – 2021)
- Annual KU Human Resources Employee Sensitivity Awareness training | (2013 – 2023)

- Nature Conservancy Legislative Committee for Kansas | (2023)
- KGS Outreach Committee | (2022 – 2023)
- Women in Science, Mentoring Committee | (2006-2009). Guided Upward Bound students and local girl scout troops in science experiments and attended weekly lectures and discussion forums hosted by local women scientists.
- OutReach Tulane, Member | 2006-2009. Performed weekend restoration activities of local community in volunteer groups, including post-Hurricane Katrina storm debris clearing, elementary school painting, and general city-wide garbage and street cleanup.
- Tulane University Vietnamese Association, Treasurer | 2007-2009. Coordinated annual outreach activities including state-wide university ‘Iron Chef’ competition, traditional cultural festivals, and intramural team sports. Monitored and regulated the club budget via petitioning for club funding and hosting city-wide fundraisers.

CORE SKILLS

Computer Software

- Proficient in ArcGIS, Adobe Acrobat; graphics tools such as Adobe Illustrator and Photoshop, broad familiarity with reservoir modeling tools such as Petrel, Petra, CMG DEM, and Department of Energy open-source tools such as NRAP and CO₂ screen. Microsoft Office (Advanced use of Excel, PowerPoint, Word, etc.), Windows, Mac OS.
- GIS related tools in database management and functional understanding with R and Oracle, Python, and geomorphology computer models such as Modflow and Surfer.

Communication

- Expert in professional communication conduct via email, phone call, and in-person with diverse stakeholders including; federal and state regulators, commercial businesses, research scientists, field engineers, international office staff, graduate students, and the general public.
- Strong DEIB background with annual diversity foundations training courses.
- Ability to demonstrate resourcefulness and good judgment to influence high-level decisions in diverse communities.

Problem Solving

- Training and experience in interdisciplinary conflict resolution practices through workshops and coursework.
- Demonstrated ability to perform risk assessment and apply innovative solutions strategies to resolve challenges.
- Capable of overcoming organizational conflicts, political setbacks, regulatory constraints, and limited resources to successfully implement complex, large-scale research projects.

Professional Service

- Annual Kansas Independent Oil and Gas Association booth as Kansas Geological Survey lead | 2012 - present
- Eastern Kansas Oil and Gas Association booth as Kansas Geological Survey lead | 2016, 2018, 2019, 2021, 2022
- Osage Minerals Council liaison | 2022 - 2024
- Kansas CCUS Task Force, co-founder and Director | 2018 - 2023
- Groundwater Protection Council | Class VI Regulatory Support Working Group member | 2023 - present
- Carbon Utilization Research Council member | 2018 - 2021
- Regional Carbon Capture Deployment Initiative member | 2017 - present
- GPI State Working Group member | 2017 - 2020
- Hosted annual CCUS Conference by KGS | 2017 - 2021, 2023
- Midcontinent AAPG core workshop & conference, coordinator | 2013, 2014, 2016
- KS Nature Conservancy Legislative Committee member | 2023
- KU Staff Senate, R&D Representative | 2019 - 2021
- KU Senate DEIB Committee member | 2020 - 2021
- Kaw Valley Eagle Days volunteer | 2020
- KGS Hiring Committee member | multiple, ad hoc

Notable Informational Briefings

- New Mexico U.S. Representative Vasquez, Provided briefing on terminated DOE projects and status of alternative funding proposals – March 2026
- Provided a Class VI briefing to the Jicarilla Apache President and Tribal Council on Class VI activities in New Mexico. October 2025 – Dulce, NM
- Briefed NM OCD Director on Class VI Primacy progress, met with Region 6 EPA Administrator, Scott Mason, on New Mexico’s positive interactions with Region 6 team. – September 2025
- Provided briefing for Navajo EPA Administrator, Stephen Etsitty about Class VI Primacy and NMT research activities. Window Rock, AZ – August 2025
- New Mexico Legislative Finance Committee, Invited expert witness on advancements in drilling and completion in oil and gas, UNM campus – September 18, 2024
- Presented to Secretary Melanie Kenderdine, Secretary James Kenny, Education Secretary Stephanie H., and Board of Regents Lupre and King on PRRC. – August 2024
- Kansas Congressional D.C. Office – Briefing on CCUS opportunities to U.S. Senator Roberts’ staff 2019
- Invited Presentation to Kansas Corporation Commission on CCUS 2018 (Susan Duffy & Ryan Hoffman), advised on Class VI primacy and public risk considerations
- KGS to KCC in Wichita with Rolfe for Dwight Keene – CCUS regulatory considerations for UIC wells
- Brad Loveless, Kansas Secretary of Wildlife and Parks on legislative strategies for CCUS program
- CURC meeting for SB 395, 2019
- (Legislative) Informational briefing on CCS to state senator Dan Kerschen 2019, Jason Probst (House Rep) 2022
- (Industry) Informational briefing to Carbon America on CCUS & storage 2019, 2022
- Watney, L., Rush, J., **Raney J.**, and Brian Dressel, DOE Project Manager, 2013, Presentation to the 2013 KGS Annual Kansas Field Conference. Participants included Kansas legislators and state officials, morning of Tuesday, June 4th, Meet bus at site of Wellington KGS #1-32. Brought core and posters in addition to describing DOE-CO2 project and answering questions pertaining economics, safety, and policy.
- Watney, W.L., Newell, K.D., Holubnyak, E., and **Raney, J.**, 2013, “Oil and Gas in Central Kansas Potential for Enhanced Oil Recovery Using CO₂”, regarding use of petroleum coke in refinery that would include CO₂ generation: to McPherson Kansas Development Corporation hosted meeting, April 3.

Presentations (Incomplete)

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- Navajo Agricultural Products Incorporated – invited speaker to board on carbon sequestration, Farmington, NM. - September 2024
 - NMOGA Power Hour – Invited speaker on Carbon Capture and Storage, Farmington, NM Civic Center. – August 2024
 - Desk & Derrick, Aztec, NM. Invited Speaker, Spoke on CCS and other research projects at PRRC. – October 2024
 - Roswell Economic Development Board Desk & Derrick Luncheon, Invited speaker: - “PRRC’s impact to New Mexico’s Oil and Gas Industry” - May 2024
 - KOGAS Conference, Invited keynote speaker, The 4th International Conference on Geo-Resources Plant Technology for Oil & Gas (ICGPT 2024) @ New Mexico Tech, Socorro, NM - June 17th-19th – 2024
 - State of Science in New Mexico, NM produced water panel facilitated by EMNRD Secretary Melanie Kenderdine, Invited panelist, Las Cruces, NM - June 26th – 2024
 - CUSP Annual Meeting, Buffalo Thunder, NM. Moderated Class VI Primacy Panel. September 2024
 - CESAM Conference, Moderator for CCS Panel, Socorro NM. November 2024
 - SPE Challenges for Net Zero and Energy Transitions – Invited moderator, speaker Dr. Robert Balch – August 2023
 - KU Tertiary Oil Recovery Program CCUS Forum – “CCUS experience in KS” – September 2022
 - KGS Annual CCUS Forum – Led discussions on legislative talks and roundtables - 2019
 - Department Of Energy Annual Carbon Storage R&D Project Update meeting, Pittsburgh, PA – 2014, 2015, 2016, 2019

Raney
June 2026

KGS Legislative Field Conference, Carbon Storage and Utilization in Kansas - Presentation to the KGS Annual Kansas Field Conference participants including Kansas legislators and state officials. Brought core and posters in addition to describing DOE-CO₂ project and answering questions pertaining economics, safety, and policy. – 2014, 2017, 2021
Stanford CCUS Workshop, CarbonSAFE ICKan - 2018
AGU speaker, CCUS Reservoir Modeling for the Wellington Small Scale Pilot CO₂ injection – 2013
EPscor Poster, CCUS MVA Technology - 2013
AAPG, March 2022, Houston, TX. U.S. EPA Class VI Injection Permit- Understanding Regulatory Requirements for Rapid Approval. Tiraz Birdie, TBirdie Consulting, Inc; Eugene Holubnyak, Jennifer Raney, Lynn Watney, Kansas Geological Survey
Geofest 2012, October 26th 2012, held in Lawrence, KS at Kansas Geological Survey, focused on a review of the DOE funded CCUS research in a morning seminar and a core workshop in the afternoon to examine the entire 1600 ft long core from Wellington KGS #1-32. Attendees included members of the Kansas Geological Society, Kansas Geological Survey, Departments of Geology at Kansas University and Wichita State University
KU Environmental Engineering Annual Conference, EpSCOR Poster - 2016

Grants and Projects (INCOMPLETE)

DOE-NETL Grant DEFE0002056: "Modeling CO₂ Sequestration in Saline Aquifer and Depleted Oil Reservoir to Evaluate Regional CO₂ Sequestration Potential of Ozark Plateau Aquifer System, South-Central Kansas (2011)."

Role: GIS-related products, data management, and project management.

Project Value: \$10M.

Key Activities: Regional modeling of CO₂ sequestration potential related to Class VI permitting.

DOE-NETL Grant DEFE0006821: "Small Scale Field Test Demonstrating CO₂ Sequestration in Arbuckle Saline Aquifer and By CO₂-EOR at Wellington Field, Summer County, Kansas (2013)."

Role: Project Manager for 5 years, handling budgeting, reporting, and daily operations to ensure deliverables were met.

Project Value: \$11M.

Key Activities: Submission of a Class VI permit application and EPA technical approval.

DOE-NETL Grant DEFE0029474: "Integrated CCS for Kansas (ICKan) (2016)."

Role: Project Coordinator for a Phase I pre-feasibility study on carbon storage and commercialization in Kansas.

Project Value: \$1.5M.

Key Activities: Transport, capture, and infrastructure assessment for commercial scale CCUS deployment.

DOE-NETL Grant DEFE0031623: "Carbon Storage Assurance Facility (CarbonSAFE) Integrated Midcontinent Stacked Carbon Storage Hub (2018 - 2021)."

Role: Project management, outreach, and stakeholder engagement.

Total Project Value: \$15+ million

Key Activities: Participation in the CCUS Task Force, management of a KS seismometer array, organization of the annual CCUS Forum in Lawrence, KS, and coordination with external organizations for project monitoring.

DOE-NETL Grant DEFE0031837: "Carbon Utilization and Storage Partnership (CUSP) for the Western USA (2019 - Present)."

Role: Outreach Lead, Project Management and Reporting, Data Synthesis, hosted annual conference.

Project Value: \$3M

Key Activities: Outreach, database management, stakeholder engagement.

DOE-NETL Grant DEFE0032056: "CORE CM: Critical Minerals in Coaly Strata of the Cherokee-Forest City Basin (06/01/2021 – Present)."

Role: Outreach and coordination of community engagement activities and management. Led DOE Interagency Working Groups on Environmental Justice and Infrastructure Development.

Project Value: \$1+ million
Key Activities: Basin-wide correlation of Pennsylvania strata, First Nations Advisory Council
DOE-FE Grant DEFE0032016: "H-2 Salt: Storing Fossil Energy as Hydrogen in Salt Caverns (2021 – 2022)."
Role: Support for project activities by consulting on project management and outreach to local regulators and industry.
Project Value: \$200,000.
Key Activities:

Publications (incomplete)

- Hasiuk, F., Raney, J., Wreath, D., (2023). Patterson Field Site. Kansas Field Conference. Kansas Geological Survey. 6 pages.
1. Holubnyak, Y., Birdie, T., Bidgoli, T. S., & **Hollenbach, J.** (2018). Methodology for Capacity Estimation for Waste Disposal and Carbon Management. In AAPG ACE 2018.
 2. Holubnyak, Y. E., Watney, L., **Hollenbach, J.**, Bidgoli, T., Fazelalavi, F. M., Doveton, J., Victorine, J., Birdie, T., Nolte, A., Tsoflias, G., & Graham, B. (2017). Small scale field test demonstrating CO₂ sequestration in Arbuckle Saline Aquifer and by CO₂-EOR at Wellington Field, Sumner County, Kansas (No. DOE-KGS-06821). Univ. of Kansas, Lawrence, KS (United States). Center for Research & Kansas Geological Survey. Final DOE Report.
 3. Holubnyak, Y. E., Watney, L., **Hollenbach, J.**, Bidgoli, T., Fazelalavi, F. M., Doveton, J., & Tsoflias, G. (2017). Small scale field test demonstrating CO₂ sequestration in Arbuckle Saline Aquifer and by CO₂-EOR at Wellington Field, Sumner County, Kansas. Univ. of Kansas, Lawrence, KS (United States). Center for Research & Kansas. Final DOE Report.
 4. Holubnyak, Y., Watney, W., **Hollenbach, J.**, Rush, J., Fazelalavi, M., Bidgoli, T., & Wreath, D. (2018). Pilot Scale CO₂ EOR at Wellington Filed in South Central Kansas. In SPE Improved Oil Recovery Conference.
 5. Holubnyak, Y., Watney, W., Birdie, T., Wreath, D., Tsoflias, G., Nolte, K., **Hollenbach, J.**, & Jackson, C. (2018). Lessons Learned from Small Scale Field Test Demonstrating CO₂ EOR and Geologic Storage at Wellington Field in Southern Kansas. In 14th Greenhouse Gas Control Technologies Conference Melbourne (pp. 21--26).
 6. Holubnyak, Y., Dubois, M., **Hollenbach, J.**, & Hasiuk, F. (2019). Challenges and Opportunities for Commercial-Scale Carbon Capture and Storage in Kansas. In SPE Annual Technical Conference and Exhibition.
 7. Meng, J., Holubnyak, Y., **Hollenbach, J.**, & Hasiuk, F. (2019). An Integrated Seal Analysis for CO₂ Sequestration in the Patterson Field at Southwest Kansas. In AGU Fall Meeting Abstracts (Vol. 2019, pp. GC31E--1299).
 8. Holubnyak, E., Steincamp, C., **Hollenbach, J.**, & Hasiuk, F. (Heard on SB 395 Allowing the exercise of eminent domain for the purpose of conducting carbon dioxide in pipes).
 9. Holubnyak, E., Dubois, M., & **Hollenbach, J.** (2020). Selecting CO₂ Sinks CCUS Deployment in South Mid-West Kansas. In Gas Injection into Geological Formations and Related Topics (pp. 161--181). John Wiley & Sons, Inc. Hoboken, NJ, USA.
 10. Holubnyak, E., Hasiuk, F., Meng, J., Mohammadi, S., **Hollenbach, J.**, Wreath, D., ... & Raines, J. (2020). CCUS storage site selection for a hub concept in Southwestern Kansas. GCAGS Transactions.

11. Meng, J., Holubnyak, E., Hasiuk, F., & **Hollenbach, J.** (2020). Geological characterization of the Patterson CO₂ storage site from 3-D seismic data. *Midcontinent Geoscience*, 1, 52--90.
12. Meng, J., Holubnyak, Y., Hasiuk, F., & **Hollenbach, J.** (2021). Seal Properties of the Carbonate Reservoirs in Southwestern Kansas for Geological CO₂ Storage. In *Proceedings of the 15th Greenhouse Gas Control Technologies Conference* (pp. 15--18).
13. Scharenberg, M., Bacon, D., Blankenau, D., Divine, D., Duguid, A., Hawkins, J., **Hollenbach, J.**, & Holubnyak, Y. (2021). Development of an integrated carbon capture, utilization, and storage hub in the United States. Battelle Memorial Institute. Final DOE Report. Pages?
14. Birdie, T., Holubnyak, E., Watney, L., Bidgoli, T., **Hollenbach, J.**, & Fazelalavi, M. (2022). Assessing Induced Seismicity Risk at the Wellington Geologic Sequestration Site.
15. Steincamp, C. C., Birdie, T. R., Stanley, D., Holubnyak, E., **Raney, J.**, & Watney, W. L. (2021). Regulation of carbon capture and storage. *Environmental Law*, 51(4), 1149--1219.
16. Ansari, E., Holubnyak, E., Hasiuk, F., & **Raney, J.** (2022). Comparing CO₂ and Variable-TDS Waste-Fluid Injection Into Deep Saline Geologic Formations. *Frontiers in Energy Research*, 10, 864013.
17. Nolte, K. A., Tsoflias, G. P., Holubnyak, Y., **Raney, J.**, & Wreath, D. (2022). Designing monitoring networks for local earthquakes. *Journal of Geophysics and Engineering*, 19(1), 75--84.
18. Watney, W. L., Birdie, T., Holubnyak, Y. E., Rush, J., Fazelalavi, F. M., Doveton, **Raney J.**, ... & Wreath, D. (2014). Geologic Carbon Storage in the Lower Ordovician Arbuckle Group Saline Aquifer in Kansas. In 2014 NGWA Groundwater Summit (pp. 1-9). NGWA.
19. Meng, J., Hasiuk, F., Holubnyak, E., & **Raney, J.** (2022). Geological and Geomechanical Analyses for Hydrogen Storage in Salt Caverns, Central Kansas. In *ARMA US Rock Mechanics/Geomechanics Symposium* (pp. ARMA--2022).
20. Watney, W., Rush, J., & PIs, J. (2015). Small Scale Field Test Demonstrating Sequestration in Arbuckle Saline Aquifer and by CO₂ EOR.
21. Birdie, Tiraz, Watney, W., Gerlach, Paul, Killion, Michael, **Raney, Jennifer**, Holubnyak, Eugene, Bidgoli, Tandis, Williams, Gene, Nguyen, Minh, Wilson, Brownie, (2014). The Impacts of Carbon Dioxide Storage in the Saline Arbuckle Aquifer on Water Quality in Freshwater Aquifers in Kansas. 59th Annual Midwest Ground Water Conference, Lawrence, KS. Lawrence, Kansas.
22. Holubnyak, Y., Dubois, M., Bidgoli, T., Wreath, D., Watney, L., Stover, S., & Jennings, J. (2018). Integrated CCS for Kansas (ICKan) Final Technical Report. Kansas Geological Survey; University of Kansas Center for Research. Contributed text and figures to sections and appendices.
23. Scharenberg, M., Walker, J., & Hawkins, J. (2021). Integrated Mid-Continent Stacked Carbon Storage Hub Project Phase II Final Summary Report. Battelle. Contributed text and figures to sections and appendices.
24. Scharenberg, M., & Duguid, A. (2021). Subsurface Characterization for Secure CO₂ Storage in the Pennsylvanian. Contributed text and figures to sections and appendices.

Mentoring and Supervision (INCOMPLETE)

Student Supervision

- Graduate: Alex Nolte (2013-2016), Lauren Haga (2016-2018), Hannah Proffit (2014-2018), Drew Schwab (2014-2016), Holly Field (2013-2015), Becky Dorward (2014), Wole Okunromode (2016-2018)
- Undergrad: Zalma Molina (2014-2017), Brock Norward (2014)

Postdocs

- Tom Glose (2021-2023) – GIS, Environmental Justice
- Jenny Meng (2016-2018) – carbon storage structural modeling
- Wei Wang (2014-2016) – structural fault modeling
- Esmail Ansari (2014-2016) – Underground Injection Control (UIC) modeling
- Christa Chance (2013-2016) – geochemistry of produced oilfield brines and USDW quality

INTERNATIONAL EXPERIENCE/LANGUAGE

English (native speaker), **German** (business proficiency), Spanish (conversational familiarity)

Vietnam

- Invited Keynote Speaker for the 3rd annual Carbon Capture Utilization and Storage Symposium at PetroVietnam University, Vung Tau, Vietnam, *October 2024*

Germany

- Eutin Public Utilities Company intern, *Summer 2012*
- Participated in the Federal Ministry of Education and Research scholars meeting at University of Heidelberg.
- Coordinated and participated in weekly Lawrence-Eutin Sister-City excursions and events.
- Eutin Sister-City student-exchange program, *Summer 2004*

Australia

- Semester in Tulane Study Abroad program as full-time international student at the University of Sydney, *Fall 2007*
 - Completed courses including; Geomorphology, Geography, and Environmental Resources Management.
 - Planned events and program activities for hundreds of residents from the ‘Sydney-Uni International House’ dormitory.

England

- Invited to provide onsite coordination for two-week Round Table Conferences at Oxford University, *March 2006 and March 2010, follow-up 2012*

Japan

- Hiratsuka Sister-City student-exchange program, hosted exchange students and exchange visit in Japan *July 2003*

Digital Products (incomplete)

KGS CCUS Project Web Pages – Generated and edited webpage content related to grant-funded projects for public dissemination

- KGS CO₂ mapper
 - o <http://maps.kgs.ku.edu/CO2/>
- ICKAN CarbonSAFE Phase I
 - o <https://www.kgs.ku.edu/PRS/ICKan/index.html>
- Integrated Midcontinent Stacked Carbon Storage Hub, CarbonSAFE Phase II
 - o <https://www.kgs.ku.edu/PRS/IMSCSH/index.html>
- South-central Kansas CO₂ Project, Wellington
 - o <https://www.kgs.ku.edu/PRS/Ozark/index.html>
- Carbon Utilization and Storage Partnership of the Western U.S., CUSP
 - o <https://www.kgs.ku.edu/PRS/cusp/index.html> & <https://www.cuspwest.org>
- Gemini tools
 - o https://www.kgs.ku.edu/PRS/Ozark/Summary/CO2_II.html