

## **Anne U. Gold (Reuther)**

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Cooperative Institute for Research in Environmental Science (CIRES)  
CIRES Center for Education, Engagement and Evaluation  
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### **EMPLOYMENT HISTORY**

since 2024 **Fellow**, Cooperative Institute for Research in Environmental Sciences (CIRES)  
since 2024 **Director CIRES Center for Education, Engagement and Evaluation (CEEE)**  
since 2023 **Affiliate Faculty Member, School of Education**, University of Colorado Boulder, CO  
since 2019 **Senior Associate Scientist**, Cooperative Institute for Research in Environmental Sciences (CIRES), Boulder, CO  
since 2017 **Director Education & Outreach Program**, Cooperative Institute for Research in Environmental Sciences (CIRES), Boulder, CO  
2010-2019 **Associate Scientist III**, Education & Outreach Program, Cooperative Institute for Research in Environmental Sciences (CIRES), Boulder, CO  
2007–2009 **Division Director**, German Alpine Association, Munich, Germany  
2005–2007 **Postdoctoral Research Fellow**, Department of Earth Sciences, Dalhousie University Halifax, Canada  
2002–2005 **Research Assistant**, University of Regensburg, Department of Geography, Germany  
2002–2003 **Lecturer and Research Assistant**, University of Regensburg, Department of Geography, Germany

### **ACADEMIC EDUCATION**

**Doctorate - Physical Geography** **2002- 2005**

University Regensburg, Germany; co-advised with faculty from Eidgenössisch Technische Hochschule, Zürich, Switzerland; Department of Earth Sciences, Halifax, Canada.

**Thesis title:** Surface exposure dating of glacial deposits from the last glacial cycle. Evidence from the Eastern Alps, Bavarian Forest, Southern Carpathians and Altai Mountains. (in English, *summa cum laude*)

**Master of Science- Geographical Information Science & Systems (GIS)** **2002-2004**

Paris-Lodron University of Salzburg, Austria

**Thesis title:** Constraining glacial equilibrium line altitudes (ELA) by different geometrical approaches by applying a Geographic Information System (GIS). A case study from the Kleinen Arbersee glacier, Bavarian Forest, Germany. (in English)

**Diploma (German Master equivalent) - Physical Geography** **1996-2001**

University of Regensburg, Germany; University of Colorado (Fulbright scholarship); University of Svalbard, Norway

**Thesis title:** Sustainable Mountaineering - Evaluation and Optimising of a pilot project on sustainable mountaineering in the German Alps. (in German, *with honors*)

## **EXPERTISE**

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### **Direction and Management**

- **CIRES Center Leadership (2017–Present):** Direct the CIRES Center for Education, Engagement and Evaluation (formerly Education & Outreach Program) by developing and executing a clear vision and strategic goals, with a strong emphasis on diversity, equity, and inclusion.
- **Team & Personnel Oversight:** Manage a team of 27 members—including 15 direct reports, 2 postdocs, students, and consultants—with responsibilities for hiring, supervision, mentoring, performance management, and navigating work modality transitions (in-person, remote, hybrid).
- **Fiscal & Infrastructure Management:** Overseeing an annual project portfolio budget of \$2.3M, secured funding and donations, managed salary allocations and asset planning, and coordinated the transition to a new office facility and a center structure.
- **German Alpine Association (2007–09):** Developed new program infrastructure, led a diverse team of 10 with full fiscal oversight, and managed performance for a non-profit while coordinating over 500 consultants.

### **Funding**

- Secured and managed dozens of awards from federal agencies (NSF, NOAA, NASA) and non-federal funders, achieving a high proposal success rate; \$18.3M in funding.
- Proficient in developing spending plans, managing awards and subawards, overseeing contracts and donations, and navigating reporting processes.

### **National Leadership in Geoscience and Climate Education**

- Chaired and convened numerous sessions at national and international conferences.
- Lead author of the ICON AGU publication on Geoscience Practice (Fortner et al., 2022) and active advisory board member on multiple projects.
- Held leadership roles with the National Association of Geoscience Teachers (NAGT) and the National Earth Science Teacher Association (NESTA), proposal reviewer/panelist and guest/associate editor.

### **Climate Education Expertise**

- Founding team member and current Principal Investigator of the NSF/NOAA/DOE-funded Climate Literacy Network (CLEAN), a national climate education portal with over 78,000 monthly sessions.
- Co-chair of 800+ member community network; co-organizer of dozens of climate literacy sessions/workshops.

### **Curriculum Development & Educator Training**

- Led projects translating scientific research into educational resources using evidence-based pedagogy.
- Developed data-driven curricula, co-created interactive “Data Puzzles,” and delivered trainings in various formats, including three MOOCs on Coursera.

### **Program and Project Evaluation**

- Directed both formative and summative evaluations for programs, projects, centers, workshops, and websites using culturally responsive techniques and social network analysis.
- Authored dozens of evaluation reports, publications, and a book chapter, development of an evaluation tool database and facilitation of training workshops.

### **Community and Student Engagement**

- Spearheaded award-winning projects that engage youth, students, and communities on natural hazards, resilience, and climate change using innovative methods such as scenario-based role-play and storytelling.
- Directed informal learning programs including a traveling library exhibit and water-focused programs in U.S. Desert Southwest.
- Since 2014, led a career development program that connects community college students with researchers through mentorship, and training, advancing the field of undergraduate research experiences.

### **Polar Science Education**

- Co-investigator on coordination offices for U.S.-wide research groups linked to the international MOSAiC expedition, with a focus on education and outreach.
- Led education and outreach subteam of NSF’s Navigating the New Arctic Program, served as Principal Investigator for the Polar Science Early Career Community Office: co-Principal Investigator of MOSAiC research expedition coordination office; editor special issue on Polar Education in Journal of Geoscience Education.

### **Education Research**

- Led multiple projects exploring spatial thinking, reasoning (dynamic and static), and the effectiveness of climate

## *Curriculum Vitae –Anne U. Gold (Reuther)*

education.

- Researched mental model development, scenario-based role-play, assessment techniques, the learning nature of science, and the impacts of cognitive and emotional engagement, including studies using eye-tracking.

### **Scientific Expertise**

- **Climate Science:** Specializes in paleoclimatology, Quaternary geology, geomorphology, and landscape evolution, with regional research spanning the European Alps, German low-elevation mountains, Norway, Romania, Russian Altai, Argentina, Chile, and Maritime Canada.
- **Geographic Information Systems (GIS)**
- **Cosmogenic Nuclide Dating:** Expert in techniques such as <sup>10</sup>Be, <sup>26</sup>Al, and <sup>36</sup>Cl, including methodological development.

## **PUBLICATIONS / CONFERENCE CONTRIBUTIONS**

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Scientific Publications **h-index: 24; i10-index: 33** ([Google Scholar](#)); ORCID: 0000-0002-5309-0762

- 67 peer-reviewed publications; 80 total publications
- Altimetric - publications with high impact (180, top 5% of research outputs, policy implications)
- 1 book (4 peer-reviews), Proceedings of the Bavarian Academy of Sciences
- Contributions to international conferences and workshops (>100 oral presentations; >100 poster presentations)
- Articles and contributions for newspapers and non-scientific journals, radio interviews and press coverage of some articles (including EOS articles).

## **FUNDING** (*in leadership role at CIRES*)

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Total funding secured through external grants while at CIRES in a leadership role ~\$18.3 Mio.

<b>Funding source</b>	<b>Proposal</b>	<b>Role</b>	<b>Budget</b>
NOAA, 2024	CLEAN Core 2024/2025	PI	\$292,414
NPS, 2024	NPS Training Program	Co-lead	\$207,000f
CIRES, 2024	Climate Mental Health Innovative Research	PI	\$30,000
NSF, 2024	NSF STEM Day Supplement	PI	\$ 85,657
NSF, 2024	We are Water Supplement	PI	\$220,000
NSF, 2024	CIF Drone	Co-PI	\$208,631
NSF, 2024	Data Puzzles	Co-PI	\$2,898,487
NSF, 2024	Girls* on Rock	Co-PI	\$387,200
UCAR, 2024	Innovator II	PI	\$50,000
NSF, 2023	ADVANCEing FieldSafety	PI	\$834,260
AMS, 2023	AMS Evaluation	PI	99,847
CU Boulder, 2023	SEED Grant: Teaching Climate Across the Curriculum	PI	\$100,000
Ten Strands, 2022	Climate Collaborative	Co-lead	\$10,000
NOAA, 2022	Resilient Colorado, HEART Force II	PI	\$500,000
NOAA, 2022	CLEAN Core 2022	PI	\$301,027
UCAR, 2022	Innovator Program	PI, contract	\$114,100
NSF, 2022	REU Supplement (A. Jahn)	Education	\$13,341

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<b>Funding source</b>	<b>Proposal</b>	<b>Role</b>	<b>Budget</b>
NSF, 2022	Environmental Data Science Innovation and Inclusion Lab (ESIIL)	Evaluation lead	\$750,701
NSF, 2021	Polar Science Early Career Community Office	PI	\$847,237
NSF, 2021	Navigating the New Arctic Community Office	Co-PI	\$551,838
NOAA, 2021	Western Water Assessment Evaluation	Evaluation lead	\$38,320
NSF, 2021	REU (Musselmann)	Education	\$29,810
NOAA, 2021	CLEAN Core	PI	\$298,887
CU, 2021	Outreach Award, Data Puzzles	Co-PI	\$24,000
HHMI, 2021	Inclusive Excellence	PI, contract	\$20,000
NSF, 2020	ELOKA Evaluation	Evaluation	\$62,903
NOAA, 2020	CLEAN Core	PI	\$262,261
NSF, 2020	CAREER (Sepúlveda)	Education lead	\$61,382
NSF, 2020	CAREER (Kopf)	Education lead	\$58,599
NSF, 2020	McMurdo Outreach	Education lead	\$43,737
NSF, 2020	Bridges to Geoscience	Co-PI	\$15,000
NSF, 2020	IUSE Geopath – Puerto Rico	Co-PI	\$348,536
NSF, 2020	IUSE – PolarPASS	Co-PI	\$200,366
NSF, 2020	REU REALM evaluation	Evaluation lead transfer	\$39,000
NSF, 2020	REU 5-year renewal	PI	\$709,427
NSF, 2020	REU-LASP evaluation	Evaluation lead transfer	\$50,000
NOAA, 2019	WWA evaluation	Evaluation lead	\$30,000
NASA, 2019	Fire Fuel GLOBE	PI transfer	\$65,322
CIRES, 2019	Innovative Research Proposal	Co-PI	\$25,000
NSF, 2019	HDR-Data Revolution	Evaluation lead	\$30,000
NOAA, 2019	CLEAN Core	PI	\$242,261
NSF, 2019	IUSE Bridges to Geoscience	CU lead	\$70,500
NSF, 2019	REU supplement	PI	\$9,000
NSF, 2019	AISL – Water in the Western US	PI	\$2,468,432
NSF, 2019	Field Safety Workshop proposal	Co-PI	\$14,712
NSF, 2019	MOSAiC Coordination Office	Co-PI	\$993,966
NOAA, 2019	Environmental Literacy Grant	PI	\$500,000
NASA, 2019	CLEAN Elementary	PI	\$30,000
CU, 2018	Science Communication & Improv	Co-PI	\$7,000
CU, 2018	Curriculum Action-Oriented Climate Change Education	Co-PI	\$24,000
NSF, 2018	ITEST supplement Puerto Rico	PI	\$62,995
NSF, 2018	MOSAiC Gas Exchange	PI, Education Lead	\$250,000
REI, 2018	Girls on Rock	PI (acting)	\$37,650

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NSF, 2018	REU-RECCS (renewal grant)	PI	\$416,325
CU, 2017	Chancellor’s Award - Spatial Thinking	PI	\$8,900
CU, 2017	Outreach Award – LOCC extension	PI	\$9,000
NOAA, 2017	CLEAN Core	PI	\$501,951
Novim, 2016	UC Berkeley- Improving Pre-College Teaching of Climate Change	PI	\$21,826
CU, 2016	Community Impact Proposal	PI	\$8,000
NSF, 2016	ITEST supplement	PI	\$8,105
NSF, 2016	CAREER (Lundquist)	Education Lead	\$120,004
NSF, 2016	CAREER (Kay)	Education Lead	\$214,664
German Exchange Council, 2015	Scholarship: Research Stay for University Academics and Scientists (2015/2016)	Awardee	3 months salary + benefits
NSF, 2015	REU – RECCS	Co-PI	\$353,356
NSF, 2015	ITEST-Lens on Climate Change	PI	\$1,094,533
NSF, 2014	Arctic Flux tower (Grachev)	Education Lead	\$24,800
CU, 2014	Outreach Award – Tribe’s Eye	PI	\$8,000
CU, 2014	Chancellor’s Award – Spatial Thinking	PI	\$10,000
CU, 2013	Outreach Office – Webinars	PI	\$7,000
CU, 2013	Outreach Award – Lens on Climate Change	PI	\$13,625

**SYNERGISTIC ACTIVITIES**

- Hiring committee Senior Director for Research Development, University of Colorado Boulder (2025)
- Host for NOAA’s Environmental Literacy Program Principal Investigator Meeting (2023)
- ICON Geoscience Education Practice Writing Leads effort led by AGU (2021/2022)
- Theme Issue Editor: Journal of Geoscience Education Theme: Polar Education (2020-2021)
- Climate Literacy and Energy Awareness Network Co-Chair (since 2017)
- Coordination Committee NSF ITEST PI Meeting 2018
- American Geophysical Union (AGU) session convener 2024, 2023, 2022, 2020, 2019, 2018, 2014, 2013, 2012, 2011, 2010 climate literacy and polar science townhalls, climate literacy workshops and panels since 2017.
- Geoscience Education Research NSF-funded Community Planning Workshop member (2017)
- National Association for Geoscience Teachers (NAGT) – Officer Geoscience Education Research Division (2016-19)
- Geological Society of America (GSA) session convener 2018, 2017, 2016, 2014, 2013
- Workshops for National Association of Geoscience Teachers (NAGT) at Geological Society of America meeting (2013), and American Geophysical Union meeting (2013)
- Presentations in K-12 classrooms, for teachers and informal educators focused on climate science
- Reviewer for international scientific and educational journals (~4-6/year); Reviewer for grant proposals (~2-3/year); NSF review panelist

**ACADEMIC TEACHING / ADVISING STUDENTS**

**TEACHING CERTIFICATION**

2005 – Certificate for teaching at university level issued by the state of Bavaria, Germany

## TEACHING (COLLEGE LEVEL)

- Introductory courses (Geomorphology, Introduction to Physical Geography, Aerial Image Interpretation)
- Advanced courses (Snowhydrology, Physical Geography of Svalbard)
- Field trips and field schools (Avalanche Protection, Svalbard, Altai Mountains)

## OTHER TEACHING

- Massive Open Online Course (MOOC):
  - Water in the Western United States (Coursera Platform – On-demand course format: 3,674 students enrolled (March 2025), Initial version in 2015: 5300 students; Canvas Platform – June 2014: 500 students)
  - Frozen in the Ice: Exploring the Arctic (Coursera Platform – On-demand course format: 3,970 students currently enrolled (March 2025))
  - Advancing FieldSafety: Changing the Culture of Fieldwork (Coursera Platform – On-demand course format: 266 students currently enrolled (March 2025))
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- Teacher professional development workshops, presentations, seminars (virtual, hybrid, face-to-face), ongoing

## ADVISING

**Postdoctoral Fellows -2 fellows:** Dr. Patrick Chandler (Teaching Climate across the Curriculum), Dr. Grace Bennett-Pierre (Spatial Reasoning and Spatial Visualizations on Science On a Sphere platforms)

**PhD students committee member –3 students:** Stephanie Courtney, Geosciences Department, University of Auburn (graduation 2022); Kelsey Tayne, School of Education, University of Colorado (graduation 2018); Ariel Morrison, Department of Atmospheric and Oceanic Sciences, University of Colorado (graduation 2018).

**MSc student co-advisor – 1 student:** Lianna Nixon, School of Education, University of Colorado (graduation 2021).

**Diploma students committee member - 4 students:** 2015, Geoscience Education, A. Rothmaier (2016); Human Geography, T. Kuhnt (2007); Physical Geography, K. Förster (2005) and C. Geiger (2004).

## SCHOLARSHIPS / AWARDS

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2024	<b>CIRES Outstanding Performance Award Science Service</b>
2023	<b>Governor’s Award for High Impact Research Award, Pathfinding Partnership</b> – We are Water Research Program
2023	<b>University of Colorado, CIRES Bronze Medal for Meritorious Service in Science</b> – Award for Extraordinary Contributions to the year-long MOSAiC polar research expedition
2022	<b>Colorado Association for Environmental Education</b> – Award for Excellence in Environmental Education Program Award for HEART Force Program
2021-2022	<b>University of Colorado President’s Diversity Equity and Inclusion Award</b> – CIRES Education & Outreach Program, Honorable Mention
2021	<b>University of Colorado - Outreach Award</b> –Data Puzzles, Inquiry-based Earth science data curriculum model (\$24,000).
2018	<b>Goldin Foundation for Excellence in Education</b> – Exemplary project award for CLEAN Network and CLEAN Collection (\$7,500).
2018	<b>University of Colorado - Outreach Award</b> –Climate Action Oriented Climate Education Curriculum (\$24,000).
2017	<b>Friends of the Planet Award by National Center for Science Education (NCSE)</b> for CLEAN Network and CLEAN Collection.
2017	<b>University of Colorado – Chancellor’s Award for Excellence in STEM Education</b> –Spatial reasoning research program with Department of Geological Sciences, CU Boulder (\$8,900).
2015-2016	<b>Research Stays for University Academics and Scientists (German Academic Exchange Council) Award</b> – Visiting scientist appointment 3 months at Ludwig Maximilian University, Munich during a 12-month visiting scientist appointment.

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- 2014 **University of Colorado – Chancellor’s Award for Excellence in STEM Education** –Spatial reasoning research program with Department of Geological Sciences, CU Boulder (\$10,000).
- 2014 **University of Colorado - Outreach Award** –Tribe’s Eye, tribal youth media communication project (\$8,000).
- 2014 **Webby Award** for Climate Literacy and Energy Awareness Education Resource Collection.
- 2013 **University of Colorado - Outreach Award** – \$13,625 Lens on Climate Change youth media communication project
- 2006 **Paul-Woldstedt Award of the German Quaternary Association** – Dissertation was recognized as a significant and outstanding contribution to Quaternary research in Europe.
- 2005–2007 **Postdoctoral Fellowship** awarded by the German Academic Exchange Council (DAAD).
- 2003–2004 **Scholarship for Young Researchers** by Association of Geomorphologists; **Scholarship for Female Scientists** at University of Regensburg; **Scholarship to Support International Scientific Relations** at University of Regensburg; **DAAD Field Trip Scholarship** (Altai Mountains)
- 2002 **PhD Fellowship** awarded by the German Academic Exchange Council (DAAD).
- 2002–2005 **Honorary Appointment in the Advisory Board** of the German Mountaineering Association for project on sustainable mountaineering
- 2001 **Johanna-Löwenherz Award** for organization and leading of an Arctic Expedition in Svalbard, Norway.
- 2000–2001 **Fulbright Scholarship** – Academic study-abroad year Boulder, Colorado, USA
- 1993 **Travel-Study Scholarship**, Oil Spill Research in Brittany, France, Stiftung für Studienreisen e.V. under patronage of UNESCO.

### **MANAGEMENT / SUPERVISOR RESPONSIBILITIES**

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Supervisor responsibilities in current role as Director of CIRES Center for Education, Engagement and Evaluation (*including chairing hiring committees, performance evaluation, career track promotions, mentorship and support for professional growth, guidance for project work, sponsorship of increasing professional visibility and opportunities*).

CEEE includes team of 27 team members and consultants (50+), graduate student (8), and undergraduate students (10).

People I directly supervise (16) include:

- Six PhD level research associates
- Nine MSc level research associates
- One BSc level research associate

Management and leadership training at the German Alpine Association, leadership of team of 10 people; Individual coaching in supervisor role.

Ongoing professional development: Critical Conversation Training (2017); Supervisor Training (2018, 2021); Supervising in a hybrid environment (2023), Leading Teams Through Change (2024)

Delivery of Inclusive Mentorship training to various research groups (ongoing).

**Dr. Anne U. Gold**  
(maiden name: Reuther)

**Publications in Scientific and Educational Journals** (h-index=24, hi-10=33; Google Scholar; ORCID - 0000-0002-5309-0762)

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**Peer Reviewed Publications (68 total)**

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- Griffith, J., Grammel, T., Hunter-Thomson, K., DeMarche, M., **Gold, A.**, Thurber, A. (in review): From Puzzles to Discovery: Building Students' Data Sensemaking Skills Through Authentic Science Investigations. *Science Teacher*.
- Vieyra, R., Tavares, D.L., Vallejo, A., Rouinfar, A., **Gold, A.**, Perkins, K. (in review): Elevating Student Agency to Explore Big Earth and Space Science Ideas with PhET Interactive Simulations
- Ward, E.G., **Gold, A.U.**, Moon, T.A., Khan, A.L., Schoenemann, S.W., Olson, M., Thomson, L., Werner, A. (in review): Analyzing 360° Interactive Environments and GIS: Impacts on Student Learning in Polar Places and Spaces, *Journal of Geography*
- Khan, A., Moon, T., **Gold, A.U.**, Schoeneman, S., Ward, E. (in review): Polar Places and Spaces (PolarPASS): Using Geographic Information Systems (GIS) and 360 deg interactive environments to bring polar science into the classroom. *Journal of Geoscience Education*.
- Littrell, M., Ward, E., Marsh, C., (76) Littrell, M., **Gold, A.U.**, Ward, E., Quarderer, N., Sullivan, S., Rattling Leaf, J., Balch, J. (2024): Assessing Needs and Sense of Belonging in an Emerging Environmental Data Science Community. American Education Research Association Conference, (accepted)
- Gold, A.U.**, Ward, E., Marsh, C., Moon, T., Schoeneman, S., Khan, A. (2024): Emotional Value Coding as an Innovative Approach to Assess Sense of Place in Classroom Instruction. American Education Research Association Conference. (accepted)
- Littrell, M., Boyd, K., Schloesser, K., Christensen, A., **Gold, A.U.**, Alam, I. (2025): Place and Community Engagement in a Youth Natural Hazards Community Resilience Education Program. *Journal of Geoscience Education* (accepted)
- Quarderer, N. A., Wasser, L., **Gold, A. U.**, Montañó, P., Herwehe, L., Halama, K., ... & Balch, J. (2025). Fostering the Development of Earth Data Science Skills in a Diverse Community of Online Learners: A Case Study of the Earth Data Science Corps. *Journal of Statistics and Data Science Education*, 33(1), 3-15.  
<https://doi.org/10.1080/26939169.2024.2362886>
- Schloesser, K., Davis, R., Ruffin, T., **Gold, A. U.**, Christensen, A., Littrell, M. K., & Boyd, K. J. (2024). Centering and uplifting youth voice in planning for a more resilient climate future in rural Colorado: a case study of a student resilience team asking for change. *Frontiers in Climate*, 6, 1408872.
- Boyd, K. J., Busch, K. C., **Gold, A. U.**, Ward, E. G., Niepold, F., Poppleton, K., ... & Morrison, D. L. (2024). Using social network analysis to assess connections within climate and energy education organizations: A case study conducted by the Climate Literacy and Energy Awareness Network (CLEAN). *Environmental Education Research*, 1-24.
- Gold, A.U.**, Maryboy, N., Begay, D., Valdez, S., Stein, J., Littrell, M., Boyd, K., Okochi, C., Rongstad Strong, B. (2023): Indigenous Logic Model Development: Fostering Collaborative Engagement and Cultural Relevance. National Association for Research in Science Education (NARST) 2024 Denver Conference. Extended conference paper. peer-reviewed
- Boyd, K.J., Littrell, M., Okochi, C., Stein, J., Valdez, S., **Gold, A.U.**, Rongstad Strong, B., Schaecher, A., Grybko, T. (2023): Engaging Communities and Adapting Informal Learning Research and Evaluation Methods to Rural Library Settings. National Association for Research in Science Education (NARST) 2024 Denver Conference. Extended conference paper, peer-reviewed.
- Okochi, C., Littrell, M.K., Boyd, K.J., **Gold, A.U.** (2023): Water meaning maps: Diving deeper into rural library visitors' connections with water in the Southwest. National Association for Research in Science Education (NARST) 2024 Denver Conference. Extended conference paper. peer-reviewed.



*Publication List – Anne U. Gold (Reuther)*

- Littrell, M.K., Okochi, C., Boyd, K., **Gold, A.U.**, Pennycook, D., McCormick, M., Mrakuzic, A. (2023): Engaging Library Visitors in Dialogues around Informal Learning about Water and Community Connections. National Association for Research in Science Education (NARST) 2024 Denver Conference. Extended conference paper. peer-reviewed
- Okochi, C, Gold, A.U., Christensen, A., Batchelor, R. (2024): Early access to science research opportunities: Growth within a geoscience summer research program for community college students, PLOS One, <https://doi.org/10.1371/journal.pone.0293674>.
- Griffith, J., Braaten, M., Dubick, A., **Gold, A.** (2023) From Windy Day Stories to Wind Farms of the Future: Leveraging student resources to make sense of science phenomena with Data Puzzles. Science Scope. <https://doi.org/10.1080/08872376.2024.2314669>
- Rongstad Strong, B., Schaecher, A., **Gold, A.**, Knight, E. (2023): We are Water: Connecting Communities Through Stories and Conversations. Living Room Conversation blog Blog post as part of Earth Day and to advertise the new Living Room Conversations Guide. <https://livingroomconversations.org/we-are-water-connecting-communities-through-stories-and-conversations/>
- Marsh, C., **Gold, A.**, Rongstad, B. (2023): Inclusive Science Communication: Strategies for Utilizing an Asset-Based Community Engagement Framework to Elevate Community Voices, Inspire Conversation, and Honor Multiple Ways of Knowing. *Frontiers in Communication*, 8, <https://doi.org/10.3389/fcomm.2023.1214105>
- Schaecher, A., Rongstad, B., and **Gold, A.** (2023): We Are Water Patch Promotes Action for Watershed Stewardship. *Connected Science Learning*, 5 (4), <https://doi.org/10.1080/24758779.2023.12318615>
- Gold, A.U.**, Ward, E.G., Marsh, C., Moon, T., Khan, A., Schoenmann, S., Littrell, M. (2023). Measuring novice-expert sense of place for a far-away place: Implications for geoscience instruction. *PLOS One* 18(10): e0293003. <https://doi.org/10.1371/journal.pone.0293003>
- Christensen, A., Welton-Mitchell, C., **Gold, A.**, James, L., Zeit, L. (2023): Beyond doom and gloom: Teaching climate change to foster empowerment. *Connected Science Learning* 5 (3).
- Karplus, M.S., Young, T.J., Anandakrishnan, S., Bassis, J.N., Case, E.H., Crawford, A.J., **Gold, AU**, Henry, L.R., Kingslake, J., Lehrmann, A.A., Montalvo, P.A., Pettit, E.C., Scambos, T.A., Sheffield, E.M., Smith, E.C., Turrin, M., Wellner, J.S. (2023): Strategies to build a positive and inclusive Antarctic field work environment. *Annals of Glaciology*, Volume 63 (87-89), pp. 125 – 131, DOI: <https://doi.org/10.1017/aog.2023.32>.
- Fortner, S., Manduca, C., Ali, H., Saup, C.M., Nyarko, S.C., Othus-Gault, S., Perera, V., Tong, V.C., **Gold, A.**, Furman, T. and Arthurs, L., 2022. Geoscience Education Perspectives on Integrated, Coordinated, Open, Networked (ICON) Science. DOI: <https://doi.org/10.1002/essoar.10510740.1>
- Gold, A.U.**, Atkins, R., McNeal, K. (2022): Undergraduates’ Graph Interpretation and Scientific Paper Reading Shift from Novice- to Expert-like as a Result of Participation in a Summer Research Experience: A Case Study. *Scholarship and Practice of Undergraduate Research*, 5(2), p. 8-19.
- Schloesser, K., Kurz, J., Gold, A.U. (2021): Too much or too little: Empowering students to plan for resiliency to flooding and drought. *The Earth Scientist*, Vol. XXXVIII, 3, 24-18.
- Littrell, M. K., **Gold, A. U.**, Koskey, K. L., May, T. A., Leckey, E., & Okochi, C. (2022). Transformative experience in an informal science learning program about climate change. *Journal of Research in Science Teaching*. 1-25, DOI: 10.1002/tea.21750
- Batchelor, R. L., Christensen, A. H., **Gold, A. U.**, & Okochi, C. (2020). A two-week virtual research experience program for community college students in the geosciences. *Advances in Engineering Education*, 8(4). 10.18260/3-1-1153-98230
- Boyd, K. J., Okochi, C., Littrell, M. K., Batchelor, R. L., **Gold, A. U.**, & Leckey, E. (2021). Career implications for college student mentors through their contribution to a climate film outreach program for adolescents. *International Journal of Science Education, Part B*, 11(4), 308-323.
- Gold, A. U.**, Pfirman, S., & Scowcroft, G. A. (2021). The imperative for polar education. *Journal of Geoscience Education*, 69(2), 97-99, <https://doi.org/10.1080/10899995.2021.1903242>.
- Leckey, E. H., Littrell, M. K., Okochi, C., González-Bascó, I., **Gold, A.**, & Rosales-Collins, S. (2021). Exploring local environmental change through filmmaking: The Lentas en Cambio Climático program. *The Journal of Environmental Education*, 52(4), 207-222.
- Boyd, K. J., **Gold, A. U.**, & Littrell, M. K. (2021). Teaching practices around natural hazards and community resilience in Colorado. *Journal of Geoscience Education*, 1-14., p. 460-473.

*Publication List – Anne U. Gold (Reuther)*

- Hill, A. F., M. Jacquemart, **A. U. Gold**, and K. Tiampo (2021), Changing the culture of fieldwork in the geosciences, *Eos Transactions American Geophysical Union* 102, <https://doi.org/10.1029/2021EO158013>.
- Batchelor, R. L., H. Ali, K. G. Gardner-Vandy, **A. U. Gold**, J. A. MacKinnon, and P. M. Asher (2021), Reimagining STEM workforce development as a braided river, *Eos Transactions American Geophysical Union* 102, <https://doi.org/10.1029/2021EO157277>.
- Schloesser, K. A., & **Gold, A. U.** (2021). Bringing polar topics into the classroom: Teacher knowledge, practices, and needs. *Journal of Geoscience Education*, 69 (2): 113-122.  
<https://doi.org/10.1080/10899995.2020.1729076>
- Tayne, K., Littrell, M. K., Okochi, C., **Gold, A. U.**, & Leckey, E. (2020). Framing action in a youth climate change filmmaking program: Hope, agency, and action across scales. *Environmental Education Research*, 1-21, <https://doi.org/10.1080/13504622.2020.1821870>.
- Griffith, J., Grandell, S., Harden, L., & **Gold, A.** (2021a). Teaching Nature of Science Concepts in the Context of Past (Fram) and Present (MOSAIC) Arctic Expeditions Breadcrumb. *Science Scope*, 44(4).
- Littrell, M. K., Tayne, K., Okochi, C., Leckey, E., **Gold, A. U.**, & Lynds, S. (2020). Student perspectives on climate change through place-based filmmaking. *Environmental Education Research*, 26(4), 594-610.
- \*Morrison, A. L., Rozak, S., **Gold, A. U.**, & Kay, J. E. (2020). Quantifying student engagement in learning about climate change using galvanic hand sensors in a controlled educational setting. *Climatic Change*, 159(1), 17-36. (*graduate student publication, I was one of the lead mentors for the student*)
- Littrell, M., **Gold, A.U.**, Tayne, K., Okochi, C., Leckey, E., Lynds, S., Williams, V., Wise, S. (2020). Exploring students' engagement with place-based environmental challenges through filmmaking: A case study from the Lens on Climate Change program. *Journal of Geoscience Education*, 68(1), 80-93.
- Tayne, K., Littrell-Baez, M.K., Leckey, E., **Gold, A.U.** (2018): Engaging with Climate Change as a Socioscientific Issue in an Informal Science Learning Environment. In: Kay, J. & Luckin, R. (eds.) *Rethinking Learning in the Digital Age. Making the Learning Sciences Count.*, International Society of Learning Sciences Conference Proceedings, v. 1, p. 1715-1716.
- Tayne, K., Littrell-Baez, M., Leckey, E., **Gold, A.** (2018): Toward More Meaningful Climate Change Education: Investigating the Role of Climate Change Solutions. Paper presented at American Evaluation Research Association Annual Meeting, New York. Extended Abstract
- Littrell-Baez, M., Tayne, K., Leckey, E., **Gold, A.**, Okochi, C., Wise, S., Lynds, S., Smith, L., Oonk, D. (2018): A Qualitative Approach to Understanding Lens on Climate Change Students' Perspectives on Climate Change. Extended abstract for American Evaluation Research Association, Annual Conference, New York.
- Gold, A.U.**, Pendergast, P., Ormand, C., Budd, D., Mueller, K. (2018): Improving Spatial Thinking Skills among Undergraduate Geology Students through short online Training Exercises. *International Journal for Science Education*. 40(18), 2205-2225, <https://doi.org/10.1080/09500693.2018.1525621>.
- Libarkin, J.C, **Gold, A.U.**, Harris, S.E., McNeal, K.S, Bowles, R.P. (2018): A new, valid measure of climate change understanding: Associations with risk perception. *Climatic Change*, 150(3), pages 403-416.
- Gold, A.U.**, Pendergast, P., Ormand, C., Budd, D., Stempien, J., Mueller, K., Kravitz, K. (2018): Spatial Skills in Undergraduate Students – Influence of Gender, Motivation, Academic Training, and Childhood Play. *Geosphere*, 14, no. 2, 668-683, doi:10.1130/GES01494.1.
- \*Aksit, O., McNeal, K.S., Libarkin, J.L., **Gold, A.U.**, Harris, S., (2017): Undergraduate Students' Knowledge and Risk Perception about Climate Change. *Journal of Research in Science Teaching*, 55 n4 p550-572, doi:10.1002/tea.21430. (*graduate student publication*)
- \*Oonk, D.J., Leckey, E., **Gold, A.U.**, Margolin-Sneider, J., Littrell-Baez, M., Smith, L.K., Lynds, S. (2017): Lens on Climate Change - Using place-based learning to explore climate change effects. *Science Scope*, 41: 86–95 (*graduate student publication, I was the lead mentor for the student*)
- Harris, S., Gold, A.U. (2017): Learning molecular behaviour may improve student explanatory models of the greenhouse effect - *Environmental Education Research*, 24 (5), 754-771, doi:10.1080/13504622.2017.1280448.
- Gold, A.U.**, Kirk, K.B., Morrison, D., Lynds, S., Sullivan, S.B., Grachev, A., Persson, O. (2015): Arctic Climate Connections Curriculum - A Model for Bringing Authentic Data into the Classroom. *Journal of Geoscience Education*, Vol. 63, pp. 185-197.

*Publication List – Anne U. Gold (Reuther)*

- Gold, A.U.**, Oonk, D., Smith, L., Boykoff, M., Osnes, B., Sullivan, S.B. (2015): Lens on Climate Change: Making Climate Meaningful through Student-Produced Videos. *Journal of Geography*, Vol. 114, p. 235-246.
- Kirk, K., **Gold, A.U.**, Ledley, T.S., Sullivan, S.B., Manduca, C.A., Mogk, D.W., Wiese, K. (2014): Undergraduate Climate Education: Motivations, Strategies, Successes, and Support. *Journal of Geoscience Education*, Vol. 62, No. 4, pp. 538-549.
- Sullivan, S. B., Ledley, T.S., Lynds, S.E., **Gold, A.U.** (2014): Navigating Climate Science in the Classroom: Teacher Preparation, Perceptions and Practices. *Journal of Geoscience Education*, Vol. 62, No. 4, pp. 550-559.
- Ledley, T. S., **Gold, A.U.**, Niepold, F., McCaffrey, M. (2014): Moving Toward Collective Impact in Climate Change Literacy – The Climate Literacy and Energy Awareness Network (CLEAN). *Journal of Geoscience Education*, Vol. 62, No. 3, pp. 307-318.
- Ellins, K.K., Ledley, T.S., Haddad, N., McNeal, K., **Gold, A.U.**, Lynds, S., Libarkin, J. (2014): EarthLabs: Supporting Teacher Professional Development to Facilitate Effective Teaching of Climate Science. *Journal of Geoscience Education*, Vol. 62, No. 3, pp. 330-342.
- Ledley, T.S., **Gold, A.U.**, Niepold, F. (2014): Enabling Climate and Energy Literacy – A Shared Effort. *EOS, Transactions American Geophysical Union*, Vol. 95, No. 36, pp. 325-326.
- Gold, A.U.**, Ledley, T.S., Buhr, S.M., Fox, S., McCaffrey, M., Niepold, F., Manduca, C. & Lynds, S. (2012): Peer-Review of Digital Educational Resources—A Rigorous Review Process Developed by the Climate Literacy and Energy Awareness Network (CLEAN). – *Journal of Geoscience Education*, Vol. 60, pp. 295-308.
- Reuther, A.U.**, Fiebig, M.C., Ivy-Ochs, S., Kubik, P.W., Reitner, J.M., Jery, H. & Heine, K. (2011): Deglaciation of a large Piedmont Lobe Glacier in Comparison with a small mountain glacier – new insight from surface exposure dating. Two studies from SE Germany. – *E&G Quaternary Science Journal*, Vol. 60 No. 2, pp. 248-269.
- Heine, K., **Reuther, A.U.**, Thieke, H.-U., Schulz, R., Schlaak, N. & Kubik, P.W. (2009): Timing of Weichselian ice marginal positions in Brandenburg (northeastern Germany) using cosmogenic in situ  $^{10}\text{Be}$ . - *Zeitschrift für Geomorphologie*, Vol. 53, pp. 433-454.
- Urdea, P., & **Reuther, A.U.** (2009): Some new data concerning the Quaternary glaciation in the Romanian Carpathians. - *Geographica Pannonica*, Vol. 13, No. 2, pp. 41-52.
- Ivy-Ochs, S., Kerschner, H., **Reuther, A.**, Preusser, F., Heine, K., Maisch, M., Kubik, P.W. & Schlüchter, C. (2008): Chronology of the last glacial cycle in the northern European Alps. - *Journal of Quaternary Science*, Vol. 23, No. 6-7, pp. 559-573.
- Reuther, A.U.**, Urdea, P., Geiger, C., Ivy-Ochs, S., Niller, H.-P., Kubik, P. & Heine, K. (2007): The glacial chronology of the Pietrele Valley, Retezat Mountains, Southern Carpathians constrained by  $^{10}\text{Be}$  exposure ages and pedological investigations. - *Quaternary International*, Vol. 164-165, pp. 151-169.
- Kubik, P.W. & **Reuther, A.U.** (2007): Attenuation of cosmogenic  $^{10}\text{Be}$  production within the first 20 cm below a rock surface. - *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms*, Vol. 259, No. 1, pp. 616-624.
- Fiebig, M.C.; Preusser, Frank; Drescher-Schneider, R.; Häuselmann, P.; Klasen, N.; **Reuther, A.U.**; Schlüchter, Christian (2007). *Glacial stratigraphy in the Northern Alpine Foreland -History and state of the Art*. *Quaternary International*, 168, p. 115. Elsevier
- Ivy-Ochs, S., Kerschner, H., **Reuther, A.**, Maisch, M., Sailer, R., Schaefer, J., Kubik, P.W., Synal, H.-A. & Schlüchter, C. (2006): The timing of glacier advances in the northern European Alps based on surface exposure dating with cosmogenic  $^{10}\text{Be}$ ,  $^{26}\text{Al}$ ,  $^{36}\text{Cl}$ , and  $^{21}\text{Ne}$ . - In: L.L. Siame, D.L. Bourles, E.T. Brown (eds.): *In Situ Cosmogenic Nuclides and their Applications in Earth Sciences. Geological Society of America Special Paper*, Vol. 415, pp. 43-60.
- Reitner, J. M., **Reuther, A. U.**, Ivy-Ochs, S., Herbst, P., Stadler, H., Kubik, P. W. & Draxler, I. (2006): The sturzstrom event of Feld (Matrei/Eastern Tyrol/Austria): A forgotten catastrophe during early human settlement in the Alps? - In: M. Tessardi-Wackerle (eds.): *PANGEO Austria 2006*, Innsbruck, pp. 274-275.
- Reuther, A.U.**, Herget, J., Ivy-Ochs, S., Borodavco, P., Kubik, P.W. & Heine, K. (2006): Constraining the timing of the most recent cataclysmic flood event from ice-dammed lakes in the Russian Altai mountains, Siberia using cosmogenic in-situ  $^{10}\text{Be}$ . – *Geology*, Vol. 34, pp. 913 – 916.
- Reuther, A.U.**, Ivy-Ochs, S. & Heine, K. (2006): Application of surface exposure dating in glacial geomorphology and the interpretation of moraine ages. – *Zeitschrift für Geomorphologie*, NF 142, pp. 335-359.

**Reuther, A.U.,** Geiger, C., Urdea, P. & Heine, K. (2004): Determining the glacial equilibrium line altitude (ELA) for the northern Retezat Mountains, Southern Carpathians and resulting paleoclimatic implications for the last glacial cycle. - *Analele Universității de Vest din Timișoara, Geografie*, Vol. 16, pp. 9-32.

### **Non-Peer Reviewed Publications - Book Chapters – Book (11 total)**

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- Rongstad Strong, B., **Gold, A.**, Ratcliffe, C., Thomas, V. (2023): Place-Based Education and Community Knowledge Connect Youth to Water Topics. <https://doi.org/10.1080/24758779.2023.12318616>
- Gold, A.U.,** Forsyth, S., Rose, A. & Boyd, K. (in press): Creative Evaluation to Improve your Programming - Practical Tools and Tips for Evaluating Broader Impact Programs. Chapter 25. In: Van Egeren, L.A. & Renoe, S. (eds.): *Transformations in Higher Education: The Scholarship of Engagement*. Michigan State University Press. And associated toolkit: <https://www.colorado.edu/researchinnovation/research-development/other-resources/broader-impacts-network/broader-impacts-project-evaluation>
- Gold, A.U.** & Bruno, B.C. (2020): Publishing Education Research. In: Sloan, V., & Haacker, R. (Eds.). (eds). *GEO REU Handbook: A Guide for Running Inclusive and Engaging Geoscience Research Internship Programs* (1st ed.), p. 157-168. doi:10.5065/ycba-qw42
- Bruno, B.C., **Gold, A.U.**, Sloan, V. (2020): Evaluating your REU Program. In: Sloan, V., & Haacker, R. (Eds.). (eds). *GEO REU Handbook: A Guide for Running Inclusive and Engaging Geoscience Research Internship Programs* (1st ed.), p. 145-155. doi:10.5065/ycba-qw42
- Cervato, C., Charlevoix, D., **Gold, A.**, Kandel, H. (2018): Research on Students' Conceptual Understanding of Environmental, Oceanic, Atmospheric, and Climate Science Content. In: St. John, K. (ed.): *A Community Framework for Geoscience Education Research. Framework of the Grand Challenges in Geoscience Education Research*. (online at [https://nagt.org/nagt/geodresearch/GER\\_framework/](https://nagt.org/nagt/geodresearch/GER_framework/)).
- Gold, A.U.**, Leckey, E., Littrell-Baez, M., Smith, L., Lynds, S. (2018): Student-Produced Short Films About Impacts of Climate Change on Local Communities: An Effective Approach That Combines Art and Place-Based Learning. Opportunities and challenges of program implementation with secondary school students. *Journal of Sustainability Education* (ISSN: 2151-7452)
- Smith, L., Rooney-Varga, J., **Gold, A.U.**, Oonk, D., Morrison, D. (2016): Engaging Secondary Students in Regionally relevant Science Topics Through Videography - Lens on Climate Change. In: *Media Literacy as a Pathway to Bridge the Digital and STEM Divides: Interest Driven Media Projects for Teachers in the Trenches*. in *Improving K-12 STEM Education Outcomes through Technological Integration*, edited by Dr. Michael Urban, Dr. David Falvo, IGI Global, ISSN: 2329-5929
- Gold, A.U.**, Ledley, T.S., Sullivan, S.B., Kirk, K.B., Grogan, M. (2015): Supporting Energy Education Online: Climate Literacy and Energy Awareness Network (CLEAN). *Journal of Sustainability Education*, [http://www.jsedimensions.org/wordpress/content/supporting-energy-education-online-climate-literacy-and-energy-awareness-network-clean\\_2015\\_01/](http://www.jsedimensions.org/wordpress/content/supporting-energy-education-online-climate-literacy-and-energy-awareness-network-clean_2015_01/)
- Reuther, A.U.** (2007): Surface exposure dating of glacial deposits from the last glacial cycle. Evidence from the Eastern Alps, the Bavarian Forest, the Southern Carpathians and the Altai Mountains. - *Relief, Klima, Paläoboden, Proceedings of the Bavarian Academy of Sciences*, Verlag Schweizerbart 21, Stuttgart, 196 p.
- Reuther, A.U.**, Ivy-Ochs, S., Heine, K. (2006): Application of surface exposure dating in glacial geomorphology and the interpretation of moraine ages. *Holocene Landscape Development and Geoarchaeological Research* 142, 335-359.
- Reuther, A.** (2002): Die Problematik das Skibergsteigens in der Bergwaldhöhenstufe der Bayerischen Alpen. - *Jahrbuch des Vereins zum Schutz der Bergwelt*, Vol. 67, pp. 261-276.

### **Book Reviews & Reports**

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- Joyce Malyn-Smith, Jessica Juliuson, Sarah MacGillivray, Irene Lee, Clara McCurdy-Kirlis. (2020). K-8: Career Competencies: Pointing to a Future of Hope. (Contributor & Reviewer).
- Gold, A.U.** (2013): Book Review: *Global Weirdness*. By Climate Central. Reports of the National Center for Science Education <http://reports.ncse.com/index.php/ncse/article/view/199/340>.

## Invited Presentations, Seminars, Panels, Talks outside of Conference Presentations (since 2014)

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- Gold, A.U.** (2025): Evaluation of Broader Impact Programs. Research Innovation Office, University of Colorado Boulder.
- Gold, A.U.**, B. Schneider, M. Dryák-Vallies, A.M. Padilla (2024): ADVANCEing FieldSafety: Training for diverse and inclusive geoscience teams - A new course and toolkit. AGU/AGI Heads and Chairs Webinar, United States of America (online in May 2024, in-person in December 2024)
- Gold, A.U.**, Okochi, C. (2024): Evaluation of Research Experience Programs. Online training Geo-REU Network Community training.
- Gold, A.U.**, Gavenus, K. (2019): MOSAiC - US Outreach and Engagement. Fedorov presentation series on icebreaker, Fedorov icebreaker.
- Morrison, D., Han, R., **Gold, A.**, Boyd, K., Christensen, A. (2020): Designing Climate Science Education in Elementary Learning Communities. ClimeTime Professional Development for Teachers in Washington State, virtual.
- Montano, P., **Gold, A. U.**, Rongstad, B. (2021): We are Water: Connecting Communities 2021 STEM for All Video Showcase.
- Lenz, J., **Gold, A.**, Krueger, F., Lehmann, R., Ebert, F., Hermann, M. (2020): From icebreakers into classrooms - opportunities for educators and scientists. Arctic Researcher and Icebreaker Consortium; APECS. virtual.
- Griffith, J., Harden, L., **Gold, A.** (2020): On Board with MOSAiC: Engaging the Public with Collaboratively Designed Resources. APECS, Opening doors: Collaboration across knowledge systems, virtual.
- Gold, A.U.** (2020): CIRES Education & Outreach Program. RIO Broader Impact Summit, virtual panel.
- Gold, A.U.** (2020): The Climate Literacy and Energy Awareness Network (CLEAN) - An ESIP Cluster. Earth Science Information Partners, virtual panel.
- Taylor, J., **Gold, A.U.**, Niepold, F. (2018): Creating Your Own Climate and Energy Education Units with CLEANet.org, Spokane, WA.
- Gold, A.U.** (2018): Evaluation of Research Experience for Undergraduate Programs. NSF-REU Geo Workshop, PI meeting. *Geo REU Principal Investigator Meeting*, Boulder, CO, United States.
- Boyd, K., **A. Gold** (2018): CLEAN & NGSS. *Colorado Science Conference*, Denver, CO, Workshop.
- Gold, A.U.**, Leckey, E., Taylor, J., Schloesser, K., Boyd, K., Littrell, M. (2019): HEART Force - the Hazard Education Awareness Resilience Taskforce project. *NOAA Environmental Literacy Principal Investigator Meeting*, Washington, D.C., panelist.
- Gold, A.U.** (2019): Broadening Participation - How to increase the diversity in the CSDMS project. *CSDMS annual meeting*, Boulder, CO, United States, panelist.
- Gold, A.** (2019): Case Studies of Successful Broader Impact Partnerships. *Arctic Researchers and Informal Science Education (ARISE) Workshop*, RI, panelist.
- Gold, A.U.** (2018): Evaluation of Research Experience for Undergraduate Programs. NSF-REU Geo Workshop, PI meeting, Boulder, CO.
- Gold, A.U.** (2018): Climate Literacy and Energy Awareness Network (CLEAN): Climate and Energy Resources Supporting Three-Dimensional Learning, Presentation to 200+ NOAA Planet Stewards, virtual.
- Gold, A.U.**, Pendergast, P., Ormand, C., Budd, D., Abbott, L., Mueller, K., Stempien, J. (2018): The Importance of Spatial Reasoning Skills in Undergraduate Geology Students and the Effect of Weekly Spatial Skill Trainings. Departmental Colloquium, Department of Geological Sciences, University of Colorado, Boulder.
- Gold, A.U.** (2016): Social Network Analysis as an Evaluation Tool. ITEST PI-meeting, Arlington, VA.
- Gold, A.U.** (2016): Klimabildung [Climate Education]. Diskurs-Arena: Nachhaltigkeit und Ethik in der Lehrerbildung, Munich, Bavaria, Germany.
- Gold, A.U.** (2016): Distribution of Spatial Reasoning Skills in Geology Students in at LMU/TU Munich and the Effect of Weekly Spatial Skill Trainings. Departmental Seminar LMU, Munich, Germany.
- Gold, A.U.**, Hubenthal, M. (2016): Evaluation in REU Programs. NSF-REU GEO Workshop, PI meeting, Boulder, CO.
- Gold, A.U.**, Stempien, J., Ormand, C., Pendergast, P., Budd, D., Mueller, K., Kravitz, K., Stroh, J., (2015): Distribution of Spatial Reasoning Skills in Undergraduate Geology Students and the Effect of Weekly Spatial Skill Trainings. Ludwig Maximilians University Munich, Germany.
- Gold, A.U.**, Stempien, J., Ormand, C., Pendergast, P., Budd, D., Mueller, K., Kravitz, K., Stroh, J., Quintanilla, A. (2015): Distribution of Spatial Reasoning Skills in Undergraduate Geology Students and the Effect of Weekly Spatial Skill Trainings. North Carolina State University, Raleigh, NC.

- Gold, A.**, Smith, L., Anderson, S., Taylor, J., Batchelor, R. (2015): Attracting Students into Science: Insights from a Summer Research Internship Program for Community College Students in Colorado. STEM Community College Summit, Boulder, CO.
- Gold, A.U.**, Sullivan, S.B., Morrison, D. (2014): Best Practices in Online Learning -The CIRES Perspective. AGU and AMS Heads and Chairs Meeting, Boulder, CO.

### Conference and Workshop Oral Presentations

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- Dryák-Vallies, M. C., Padilla, A., **Gold, A.** (2024): Providing Early Career Scientists with Resources and Support to Advance Culture Change within the Polar Sciences, *American Geophysical Union Conference*, oral presentation.
- Gold, A. U.**, Almaraz, M., Diaz, M., Hill, A., Padilla, A., Dryák-Vallies, M. C., Jacquemart, M., Marin-Spiotta, E., Schneider, B., Ward, E., Cassotto, R., Thurber, A., Mattheis, A., Hastings, M. G., Tiampo, K. F. (2024): Towards Progress in Making Geoscience Fieldwork Settings More Welcoming and Inclusive – Results from an AGU Member Survey on Field Culture and the Introduction of a New Training Program, *American Geophysical Union Conference*, oral presentation.
- Gold, A. U.**, Christensen, A., Dooley, L., Gwischcz, J., Newman, S. (2024): Climate Mental Health - Exploring the Support, Resources, and Training for Educators and Climate Researchers to Feel Confident and Comfortable in Addressing Climate Emotions While Teaching About and Researching Climate Change Topics, *American Geophysical Union Conference*, oral presentation.
- Jacquemart, M., Hill, A., Padilla, A., Mattheis, A., **Gold, A.**, Thurber, A., Schneider, B., Geraghty Ward, E., Marín-Spiotta, E., Tiampo, K., Dryák-Vallies, M., Hastings, M., and Cassotto, R. (2025): ADVANCEing FieldSafety: A new course and toolkit for diverse and inclusive geoscience teams, EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024, EGU24-17802.
- Gold, A.U.**, Boyd, K., Niepold, F., Frankel-Goldwater, L., Fiorile-Desranleau, G., Chandler, P. (2023): Empowering Climate Education: Leveraging the Fifth National Climate Assessment (NCA5) for Action and Empowerment, AGU Fall meeting (invited oral presentation).
- Gold, A.U.**, Rongstad, B., Ratcliffe, C., Maryboy, N.C., Littrell, M., Newman, N., Boyd, K., Okochi, C., Stein, J., Valdez, S. and We are Water team (2023): Collaborate to Innovate: We Are Water - Building Resilience through Community Engagement on Water Topics. AGU Fall meeting (oral presentation)
- Johnson, N., Carlo, N., Temte, J., **Gold, A.U.**, Moon, T.A., Gregory, A., Spellman, K., Sparrow, E., Druckenmiller, M. (2023): Towards an “Arctic Together”: Supporting an Inclusive and Diverse Community through the Navigating the New Arctic Community Office. AGU Fall meeting (oral presentation).
- Schloesser, K., Littrell, M., Christensen, A., Boyd, K., **Gold, A.U.** (2023): Place-Based Strategies for Community Climate Resilience in Classrooms of the Rural Western US. AGU Fall meeting (oral presentation).
- Dryák-Vallies, M.C., Markle, B., **Gold, A.U.** (2023): Challenges, Needs and Proposed Solutions for Better Supporting Everyone in Our Polar Early Career Researcher Community. AGU Fall meeting (oral presentation)
- Balch, J., et al. (2023): The Environmental Data Science Innovation & Inclusion Lab (ESIIL): a next-generation NSF data synthesis center. ESA Meeting, Portland
- Rongstad Strong, B., **Gold, A.U.** (2023): Connecting Diverse Communities with Science Topics through Storytelling. Association for Science and Technology Centers 2023 Annual Conference.
- Littrell, M., Johnston, K., Okochi, C., Boyd, K., **Gold, A.**, Rongstad Strong, B. (2023): Strengthening Community-Engaged Research with Collaboration: Support from Local Student Assistants. Engagement Scholarship Consortium 2023.
- Littrell, M., Boyd, K., Schloesser, K., **Gold, A.**, Christensen, A. (2023): Building Students’ Understanding of Natural Hazards and Confidence to Engage in Community Resilience Efforts. National Association for Research in Science Teaching Conference, Chicago.
- Gold, A.U.**, Busch, K.C., Niepold, F., Ward, E.G., Boyd, K., Fiorile, G., Poppleton, K., Haas, D. (2022): Increasing Interconnectedness among Climate Change Education Efforts. Results from a social network analysis of the Climate Literacy and Energy Awareness Network (CLEAN). American Geophysical Union Meeting, Chicago, December 2022, **invited talk** in Union session.

*Publication List – Anne U. Gold (Reuther)*

- Stamo, D.F., Christensen, A., Okochi, C., **Gold, A.U.**, Batchelor, R.L., Pennycook, D., Velez, K.P., (2022): How to Support the Main Character: A Model for Improving Retention through Empowered Negotiation of Science Identity. American Geophysical Union Meeting, Chicago, December 2022, oral presentation.
- Christensen, A., Stamo, D.F., Okochi, C., Batchelor, R.L., **Gold, A.U.** (2022): Braiding Community College Students' Rivers: Increasing Access and Persistence in the Geosciences, American Geophysical Union Meeting, Chicago, December 2022, oral presentation.
- Arthurs, L., Mulvey, B.K., St. John, K., Furman, T., Hendratta, A., Fortner, S, Manduca, C.A., **Gold, A.U.** (2022): ICON Science Relevance to Geoscience Education, American Geophysical Union Meeting, Chicago, December 2022, **invited talk**.
- Dryak, M.C., **Gold, A.U.**, Batchelor, R.L., Markle, B. (2022): Community-Building as a Mechanism for Inclusion and Belonging in the Cryospheric and Polar Sciences: Early Thoughts from the New Polar Science Early Career Community Office, American Geophysical Union Meeting, Chicago, December 2022, oral presentation.
- Rongstad, B., **Gold, A.U.**, Newman, N., Ratcliffe, C., Fairfax, E., Schaecher, A., Boyd, K., Okochi, C., Littrell, M., Maryboy, N.C., Begay, D.H., Valdez, S., Stein, J. & We are Water Project Team (2022): Using Storytelling to Connect Diverse Communities with Science Topics Through Informal Education Experiences, American Geophysical Union Meeting, Chicago, December 2022, oral presentation.
- Gold, A.U.**, Moon, T., Khan, A., Schoenemann, S. W., Ward, E.M.G, Pennycook, D., Lazoan, A. & Lei, Y. (2022): Bringing Polar Landscapes into The College Classroom Using 360-Degree Interactive Environments. Geological Society of America Annual Meeting, doi: 10.1130/abs/2022AM-382737. (invited)
- Gold, A.U.**, Ward, E., Marsh, C., Littrell, M., Moon, T., Khan, A., Schoenemann, S. W. (2022): Measuring Novice-Expert Meanings For Far-Away Places: An Approach For Characterizing Place Meaning And Its Implications For Geoscience Instruction, doi: 10.1130/abs/2022AM-382637.
- Littrell, M.K., Schloesser, K., Boyd, K., Christensen, A., **Gold, A.U.**, & Okochi, C. (2021): Understanding how different learning contexts and levels of community and classroom engagement empower youth to build community resilience to environmental hazards in rural Colorado. *American Geophysical Union Fall Meeting*, virtual, vol. ED53B-06
- Rongstad, B., Montano, P., Newman, N., **Gold, A.U.**, Ratcliffe, C., Boyd, K., Okochi, C., Okochi, C., Littrell, M., Maryboy, N., Begay, D., & LaConte, K. (2021): Community Voices and Collaborative Partnerships Inform Development of Informal STEAM Education Experiences. *American Geophysical Union Fall Meeting*, Virtual & New Orleans, LA.
- Gold, A.U.**, Littrell, M., Okochi, C., Harden, L., Christensen, A., Griffith, J. (2021): Inspiring and engaging learners in science topics - Tools to measure transformational science educational experiences. *American Geophysical Union Fall Meeting*, New Orleans, invited
- Batchelor, R., Ali, H., Gardner-Vandy, K.G., **Gold, A.**, MacKinnon, J., Matthews, J., Asher, P. (2022): Dismantle the Pipeline: Reframing STEM Workforce Development as a Braided River. *American Meteorological Society Meeting*, Husdon, virtual
- Christensen, A., Batchelor, R., Okochi, C., **Gold, A.**, Stamo, D. (2021): Supporting Students' Well-being and Fostering a Sense of Belonging in the Sciences Through Vulnerable Exploration of Identity, Border Crossings, and Imposter Syndrome. *American Geophysical Union Fall Meeting*, New Orleans, virtual.
- Boyd, K.J., Fiorile, G., **Gold, A.**, Niepold, F., Ochwat, N., Christensen, A., Bruckner, M., Fox, S., Kirk, K., Ledley, T. (2022): The Climate Literacy and Energy Awareness Network (CLEAN). *American Meteorological Society Meeting*, Houston, virtual
- Gold, A.U.**, Leckey, E., Schloesser, K., Littrell, M., Okochi, C., Boyd, K., Montano, P. (2020): Engaging learners around climate change impacts in their communities - Strategies learned from in-class, after-school and informal learning education programs in rural communities of the Southwestern US. AGU Fall Session. virtual. (invited)
- Littrell, M., Maryboy, N., Begay, D., Valdez, S., Stein, J., **Gold, A.**, Montano, P., Boyd, K., Okochi, C. (2020): The Yucca Plant as a Model for Program Development in the "We are Water" Traveling Library Exhibit in the Four Corners Region. GEO Indigenous Summit 2020, Geneva, online, Switzerland.
- Gold, A.U.**, Morrison, A., Kay, J. (2020): Exploring student engagement in learning climate science in different instructional settings Geological Society of America. Portland, OR, virtual.
- Harden, L., Griffith, J., **Gold, A.** (2020): Engaging the Public in Science Learning with the 2019-2020 MOSAiC Arctic Research Expedition American Geophysical Union Fall Meeting. virtual.
- Okochi, C., **Gold, A.**, Christensen, A., Batchelor, R. (2020): A Two-Week Virtual Research Experience for Community College Students (RECCS). Geological Society of America. Portland, OR, virtual.

*Publication List – Anne U. Gold (Reuther)*

- Boyd, K., **Gold, A.**, Niepold, F., Ochwat, N., Christensen, A., Morton, A., Morrison, D., Bruckner, M., Chandler, P., Ledley, T., Manning, C., Kirk, K., Fox, S. (2021): A Decade of Climate Literacy - The Climate Literacy and Energy Awareness Network (CLEAN) turns 10 American Meteorological Society Meeting. virtual.
- Boyd, K., Littrell, M., Okochi, C., **Gold, A.**, Leckey, E., Batchelor, R. (2020) Impacts on College and Graduate Student Mentors from Guiding Secondary Students in a Community-based Climate Change Outreach Program American Geophysical Union Fall Meeting. virtual.
- Montano, P., **Gold, A.U.**, Leckey, E., Boyd, K., Okochi, C., Littrell, M., Okochi, C., Maryboy, Nancy., LaConte, K., Newman, N., Valez, S., Stein, J. (2020): We Are Water - Community Perspectives at the Center Of Designing Informal STEM Education Experiences About Water American Geophysical Union Fall Meeting. virtual.
- Schloesser, K., Leckey, E., Christensen, A., **Gold, A.**, Okochi, C., Boyd, K., Littrell, M., Morton, A. (2020) Creating Local Pathways for Resilience to the Impacts of Global Climate Change with the Hazard Education and Resilience Task (HEART) Force in Rural Colorado. American Geophysical Union Fall Meeting. virtual.
- Christensen, A., Batchelor, R., Okochi, C., **Gold, A.** (2020) Going virtual: Lessons Learned from a Two-Week Virtual Summer Research Experience for Community College Students. American Geophysical Union Fall Meeting. virtual.
- Littrell, M., Leckey, E., **Gold, A.**, Tayne, K., & Okochi, C. (2020): The Lens on Climate Change: Engaging and Inspiring Secondary Students through Place-based Filmmaking. NARST, Baltimore, MD.
- Boyd, K., **A. Gold** (2019): Climate Literacy Education - Barriers, Successes, and Future Work, Pardee Session. Geological Society of America, Phoenix, AZ. (Invited)
- Littrell, M.K., **Gold, A.**, Boyd, K., Taylor, J., Leckey, E., Schloesser, K., & Morton, A. (2019): Empowering youth to envision community resilience actions around natural hazards. Center for STEM Learning 11th annual Symposium on STEM Education, Boulder, CO.
- Lynds, S., **Gold, A.**, Boyd, K., Morton, A. (2019): A decade of enhancing climate and energy literacy-CLEAN's program-wide evaluation. American Evaluation Conference, Minneapolis, MN
- Leckey, E., **Gold, A.**, Schloesser, K., (2019): Building Resilience in Colorado Communities to Natural Hazards. Colorado Science Conference, Denver, CO
- Leckey, E., Gonzalez-Bascu, I., **Gold, A.U.**, Littrell, M., Okochi, C. (2019): Exploring local environmental change through filmmaking: the Lenten En Cambio Climatico Program. American Geophysical Union Fall Meeting, San Francisco, CA
- Boyd, K., **Gold, A.U.**, Littrell, M., Leckey, E., Morton, A., Schloesser, K., Okochi, C. (2019): Hazard Education and Resilience Awareness Task Force (HEART) Needs Assessment: Colorado teachers' experience in and needs for teaching about natural hazards and community resilience. American Geophysical Union Fall Meeting, San Francisco, CA (invited)
- Leckey, E., **Gold, A.**, Boyd, K., Schloesser, K., Morton, A., Littrell, M. (2019): Empowering youth to envision community resilience actions through scenario-based natural hazard game. American Geophysical Union Fall Meeting, San Francisco, CA
- Schloesser, K., Leckey, L. Taylor, J., **Gold, A.U.**, Okochi, C., Boyd, K., Littrell, M., Morton, A., (2019): Planning for resilience: the Hazard Education and Resilience Awareness Task empowers youth to lead the resilience conversation in rural Colorado. American Geophysical Union Fall Meeting, San Francisco, CA
- Gold, A.**, Schloesser, K., Human, K., Shupe, M., Richman, A., Nixon, L., Metzinger, T., Bogan, K., Morris, S., Weeman, K. (2019): MOSAiC - a Year in the Ice. Engaging the Public through Captivating Science. American Geophysical Union Fall Meeting, San Francisco, CA
- Ledley, T. S., **Gold, A.U.**, Niepold, F., Taylor, J., Kirk, K., Bruckner M. & Fox, S. (2018): Using the CLEAN Collection to Build Three-Dimensional Lessons to Teach the Climate System. *Goldschmidt*, Boston, CO
- Gold, A.**, Curry, R.M., Briggs, J., Smith, L., McNeal, K., Atkins, R., Batchelor, R., Luna Medina, L., Anderson, S. (2018): Research Experience for Community College Students: Smoothing the Pipeline for 2YC Students into Geoscience Programs at 4YCs. *Geological Society of America*, Indianapolis, IN
- Morrison, A., Kay, J.E., Gold, A.U., McNeal, K., Soltis, N. (2018): Using Galvanic Skin Sensors to Measure Engagement and Learning Outcomes During Teacher Workshops and Undergraduate Classes about Climate Science. *Earth Educators' Rendezvous*, Lawrence, KS
- Taylor, J., Niepold, F., **Gold, A.U.**, Manning, C. (2018): Creating Your Own Climate and Energy Education Units with CLEANet.org. North American Association for Environmental Educators. Annual National Meeting, Spokane, WA.
- Ledley, T., **Gold, A.U.**, Niepold, F., Taylor, J., Kirk, K., Bruckner, M., Fox, S. (2018): Using the CLEAN Collection to Build Three-Dimensional Lessons to Teach the Climate System. [invited] *Goldschmidt Conference*, Boston, MA.



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- Charlevoix, D.J., **Gold, A.U.**, Kandel, H., Cervato, C. (2018): Advancing Atmospheric Sciences Education Research: Developing a Framework around Grand Challenges of the Broader Geoscience Education Research Community. American Meteorological Society Annual Meeting.
- Gold, A.U., Rose, A., Fenwick, J. (2018): Encouraging Storytelling in Science Outreach. National Alliance for Broader Impact, Providence, RI.
- Forsyth, S., Rose, A., Gold, A. (2018): Low Budget Evaluation Tools. National Alliance for Broader Impact, Providence, RI.
- Gold, A.U.**, Sullivan, S.M., Manning, C.L., Ledley, T.S., Youngman, E., Taylor, J., Niepold, F., Kirk, K., Lockwood, J., Bruckner, M.Z., Fox, S., (2017): Using the CLEAN educational resource collection for building three-dimensional lessons to teach the climate system. [invited] American Geophysical Union Fall Meeting, New Orleans.
- Wasser, L.A., **Gold, A.U.** (2017): A Program Wide Framework for Evaluating Data Driven Teaching and Learning - Earth Analytics Approaches, Results and Lessons Learned. American Geophysical Union Fall Meeting, New Orleans.
- Leckey, E., Littrell-Baez, M., Tayne, K., **Gold, A.U.**, Okochi, C., Oonk, D., Smith, L., Lynds, S.E. (2017): Storytelling and Technology Combine to Create Student Engagement Around Locally Relevant. American Geophysical Union Fall Meeting, New Orleans.
- Libarkin, J.C, **Gold, A.U.**, Harris, S.E., Mcneal, K.S, Bowles, R.P. (2017): Relating Understanding and Risk Perception with A Validated Measure of Climate Change Conceptions [invited]. Geological Society of America Annual Meeting, Seattle.
- Gold, A.U.**, Morrison, A., Soltis, N.A., Mcneal, K., Kay, J.E. (2017): Measuring Engagement and Learning Outcomes During A Teacher Professional Development Workshop About Creative Climate Communication. Geological Society of America Annual Meeting, Seattle.
- Smith, L., **Gold, A.U.**, Anderson, S.P., Taylor, J.L., Luna, L.M., Batchelor, R. (2017): Research Experience for Community College Students in Critical Zone Science: Smoothing the Pipeline For 2YC Students Into Geoscience Programs at 4YCs. Geological Society of America Annual Meeting, Seattle.
- Shabram, P., Smith, L., **Gold, A.**, Charlevoix, D., Morris, A., Russo-Nixon, K., Miller, M. (2017): Building Pathways to STEM Careers in Geoscience and Environmental Science through the Colorado Community Colleges. Earth Educator's Rendezvous, Albuquerque, NM.
- Gold, A.U.**, Pendergast, P., Ormand, C., Budd, D., Stempien, J., Mueller, K., Kravitz, K., Stroh, J., Quintanilla, A. (2016): Differences in Spatial Reasoning Skills in Undergraduate Geology Students and the Effect of Weekly Spatial Skill Training. European Geophysical Union Meeting, Vienna, Austria.
- Gold, A.U.**, Gordon, E.S. (2016): Using a Massive Open Online Course (MOOC) for Earth Science Education: Who Did We Teach and What Did We Learn? European Geophysical Union Meeting, Vienna, Austria.
- Gold, A.U.**, Ledley, T.S., Grogan, M., Sullivan, S., Lockwood, J., Youngman, B., Manning, C., Holzer, M., Niepold, F. (2016): Teaching about Climate and Energy using NGSS-aligned resources from the CLEAN Collection and a new Earth System Investigation framework. American Geophysical Union Fall Meeting, San Francisco, CA.
- Gold, A.U.**, Pendergast, P., Stempien, J., Ormand, C., Budd, D., Mueller, K., Kravitz, K. (2016): Importance of Spatial Reasoning Skills in Undergraduate Geology Students and the Effect of Weekly Spatial Skill Trainings – with a Specific Focus on the Gender Gap. Geological Society of America, Denver, CO.
- Leckey, E., **Gold, A.U.**, Wise, S., Littrell-Baez, M., Lynds, S., Oonk, D., Smith, L., Cozzetto, K., Alweis, D., Forsyth, S., Carpenter, E. (2016): Lens on Climate Change (LOCC)—Engaging Diverse Secondary Students in Climate Science Through Filmmaking. Geological Society of America, Denver, CO.
- Smith, L., **Gold, A.U.**, Anderson, S., Taylor, J., Batchelor, R. (2016): Research Experience for Community College Students in Colorado: Insights on Improving the Pipeline of 2YC Students into the Geosciences. Geological Society of America, Denver, CO, USA
- Sullivan, S., **Gold, A.**, Kirk, K., Lynds, S., Morton, A. (2016): Evaluating a Web Portal for Quality of Relationship. Best of Both Worlds, Estes Park, CO.
- McNeal, K.S., Libarkin, J., Ledley, T., **Gold, A.**, Lynds, S., Haddad, N., Ellins, K., Dunlap, C., Bardar, E., Youngman, B. (2015): Assessment of High-school Students Engaged in the EarthLabs Climate Modules using the Climate Concept Inventory. American Geophysical Union Meeting, San Francisco.
- Ledley, T., **Gold, A.U.**, Niepold, F. (2015): The Climate Literacy and Energy Awareness Network (CLEAN) – Enabling Collective Impact on Climate and Energy Literacy. American Geophysical Union Meeting, San Francisco

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- Libarkin, J., **Gold, A.U.**, Harris, S, McNeal, K., Bowles, R. (2015): Psychometric Principles in Measurement for Geoscience Education Research: A Climate Change Example. American Geophysical Union Meeting, San Francisco.
- Gold, A.U.**, Smith, L., Anderson, S., Taylor, J., Batchelor, R., Monday, B., Fierer, N., Rangwala, I. and McCutchan, J. (2015): Attracting Students into Science: Insights from a Summer Research Internship Program for Community College Students in Colorado. CIRES Rendezvous, Boulder, CO.
- Oonk, D., **Gold, A.U.**, Cozzetto, K., Avery, K., Bergren, J., and Nakai, J. (2015): Tribe's Eye Project. CIRES Rendezvous, Boulder
- Atkins, R., McNeal, K.S., Luginbuhl, S., **Gold, A.U.** (2015): An Eye-Tracking Study on Expert-Novice Differences During Climate Change Graph Reading Tasks. Geological Society of America Meeting, Baltimore.
- Kirk, K.B., **Gold, A.U.**, Sullivan, S. (2015): Dissecting the Tactics of Climate Denial: Lessons for Communicators. Geological Society of America Meeting, Baltimore.
- Gold, A.U.**, Gordon, E. (2015): Using a Massive Open Online Course (MOOC) for Earth Science Education: Who Did We Teach and What Did We Learn? Earth Educators' Rendezvous, Boulder, CO.
- Gold, A.U.**, Stempien, J., Ormand, C., Pendergast, P., Budd, D., Mueller, K., Kravitz, K., Stroh, J., Quintanilla, A. (2015): Differences in Spatial Reasoning Skills in Undergraduate Geology Students and the Effect of Weekly Spatial Skill Trainings. Earth Educators' Rendezvous, Boulder, CO.
- Lynds, S., Sullivan, S., **Gold, A.**, Kirk, K., Morton, A., (2015): Evaluating the Climate.gov Web Portal—A Key Resource for Climate Information. Earth Educators' Rendezvous, Boulder, CO.
- Gold, A.U.**, Stempien, J., Ormand, C., Pendergast, P., Budd, D., Mueller, K., Kravitz, K., Stroh, J., Quintanilla, A. (2015): Differences in Spatial Reasoning Skills in Undergraduate Geology Students and the Effect of Weekly Spatial Skill Trainings. Discipline-based Education Research Group, Boulder
- Niepold, F., Shrestha, S., Herring, D., Gardiner, N., Sullivan, S., Keck, J., Lynds, S., **Gold, A.U.** (2014): Leveraging Climate Science for Societal Benefit and Application. American Geophysical Union, San Francisco, CA, USA.
- Gold, A.U.** & Harris, S. (2014): Measuring understanding of the greenhouse effect in University students—a comparison of different assessment tools with respect to students' mental models. American Evaluation Association Conference, Denver, CO.
- Helms, J. & **Gold, A.U.** (2014): An Informant Network as a Mechanism to Study a Large-scale Intervention: Results from the Climate Literacy and Energy Awareness Network (CLEAN). American Evaluation Association Conference, Denver, CO.
- Ledley, T.S., **Gold, A.U.**, Sullivan, S.B., Grogan, M., Niepold, F. (2014): The Climate Literacy and Energy Awareness Network (Clean). Geological Society of America Meeting, Vancouver, Canada.
- Sullivan, S.B., **Gold, A.U.**, Lynds, S.E., Ledley, T.S. (2014): Educator Energy Literacy Practices and Needs as Drawn from The Climate Literacy and Energy Awareness Network Collection Project. Geological Society of America Meeting, Vancouver, Canada.
- Ellins, K.K., Lockwood, J., Mote, A., Haddad, N., Ledley, T.S., Lynds, S., Mcneal, K.S., Libarkin, J., **Gold, A.**, IODP Expedition 341 Science Team (2014): Earthlabs Climate Detectives: Curriculum Based on IODP Expedition 341 on the Joides Resolution. Geological Society of America Meeting, Vancouver, Canada.
- Kirk, K.B., **Gold, A.U.**, Morrison, D., Lynds, S., Sullivan, S.B., Grachev, A.A., Persson, O. (2014): Arctic Climate Curriculum: Engaging High School Students with Authentic Data in A Flexible, Relevant, And Easy-To-Use Format. Geological Society of America Meeting, Vancouver, Canada.
- Gold, A.U.**, Ledley, T., Kirk, K., Grogan, M. (2014): Climate Literacy and Energy Awareness Network – A resource for educators and learners. Presentation at the Department of Energy: Energy Education Summit (virtual presentation).
- Oonk, D., **Gold, A.U.**, Smith, L., Sullivan, S.B., Boykoff, M., Osnes, B. (2014): Lens on Climate Change (LOCC) – Engaging Secondary Students in Climate Science through Videography. CIRES Rendezvous, Boulder, CO.
- Gold, A.U.**, Kirk, K., Morrison, D., Grachev, A., Persson, O., Lynds, S. (2014): Arctic Climate Data in the Classroom. CIRES Rendezvous, Boulder, CO.
- Gold, A.U.**, Stempien, J., Budd, D., Mueller, K., Kravitz, K., Oonk, D. (2014): Studying Spatial Reasoning Skills in Undergraduate Geology Students and the Effect of Weekly Spatial Skill Trainings. Discipline-based Education Research Group, Boulder, CO.
- Harris, S.E., **Gold, A.U.** (2013): Student Mental Models of the Greenhouse Effect: Retention Months After Interventions, American Geophysical Union Fall Meeting, San Francisco, CA.
- Gold, A.U.**, Harris, S.E. (2013): Measuring University students' understanding of the greenhouse effect – a comparison of multiple-choice, short answer and concept sketch assessment tools with respect to students' mental models, American Geophysical Union Fall Meeting, San Francisco, CA.

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- Ledley, TS, **Gold, A.U.**, Niepold, F., McCaffrey, M. (2013): The CLEAN Network – Working toward Collective Impact on Climate Literacy. Fall AGU Meeting, San Francisco, CA.
- Sullivan, SB, Ledley, T.S., Kellogg, N., **Gold, A.U.**, Lynds, S., Manduca, C. (2013): What to do Next? Supporting Climate Literacy within Next Generation Science Standards. Fall AGU Meeting, San Francisco, CA.
- McNeal, K., Libarkin, J.C., Ledley, T.S., **Gold, A.U.**, Lynds, S.E., Haddad, N., Ellins, K.K., Bardar, E., Dunlap, C., Youngman, E. (2013): Development of a Climate Concept Inventory and Assessment of High-school Students Engaged in the EarthLabs Climate Modules. American Geophysical Union Meeting, San Francisco, CA.
- Morrison, D., **Gold, A.U.** (2013): Climate Literacy and Energy Awareness Network (CLEAN): Instructional Resources for Science Educators. Regional National Science Teacher Association Conference, Denver, CO.
- Taylor, J., **Gold, A.U.**, Buhr, S.M., Smith, L. (2013) Teaching Climate and Energy: Classroom Resources to Support Your Teaching. Regional National Science Teacher Association Conference, Denver, CO.
- Gold, A.U.**, Harris, S.E. (2013): Measuring University Students' Understanding of the Greenhouse Effect. Discipline Based Education Research Group, Boulder, CO.
- Ellins, K., Ledley, T., Haddad, N., McNeal, K., **Gold, A.U.**, Lynds, S., Libarkin, J., Quartini, E., Thirumalai, K., Caviette, M. (2013): Earthlabs: Supporting Teacher Professional Development to Facilitate Effective Teaching of Climate Science, Geological Society of America Meeting, Denver, CO.
- Gold, A.U.**, Ledley, T.S., Kirk, K., Sullivan, S.B., Manduca, C., Lynds, S. (2013): Investigating and Supporting Energy Education as a Component of Climate Education. Geological Society of America Meeting, Denver, CO.
- Gold, A.U.**, Ledley, T.S., Sullivan, S.B., Grogan, M., Lynds, S. (2013): Climate Communication and Education – Effective Framework Developed by the Climate Literacy and Energy Awareness Network (CLEAN). Geological Society of America Meeting, Denver, CO.
- Harris, S., **Gold, A.U.** (2013): University Students' Mental Models of The Greenhouse Effect: A Comparison of Two Learning Activities in Moving Students Toward Expert Thinking, Geological Society of America Meeting, Denver, CO.
- Ledley, TS, **Gold, A.U.**, Niepold, F., Grogan, M., Kirk, K., Sullivan, S.B., Lynds, S., McCaffrey, M., Manduca, C.A., Fox, S. (2013): The Climate Literacy and Energy Awareness Network (CLEAN): Leveraging Reviewed Educational Resources and a Diverse Community to Achieve Climate Literacy Goals. Geological Society of America Meeting, Denver, CO.
- Sloan, V., **Gold, A.U.**, Buhr Sullivan, S., Oonk, D., Lynds, S., Ledley, T.S., Manduca, C. (2013): Reaching Middle and High School Teachers through Email Lists, Facebook, and Web Postings the Results of Sharing Clean Climate and Energy Online Teaching Resources. Geological Society of America Meeting, Denver, CO.
- Ledley, T.S., **Gold, A.U.** (2013): Climate Literacy and Energy Awareness Network (CLEAN). Supporting Members in Increasing Climate Literacy, Spring 2013 survey. CLEAN Network call, 9/24/13, (virtual presentation).
- Ledley, T.S., **Gold, A.U.**, Kirk, K., Grogan, M. (2013): Integration of the Energy Literacy Principles in the Climate Literacy and Energy Awareness Network (CLEAN) Portal. Presentation for Department of Energy 5/6/13 (virtual presentation).
- Gold, A.U.**, Buhr, S., Ledley, T.S. (2013): Teaching Climate and Energy: The CLEAN Collection of Peer-Reviewed Climate and Energy Learning Resources. NSTA Conference, San Antonio, TX.
- Randolph, G., Niepold, F., **Gold, A.U.**, Falcon, P., TeBockhorst, D., McLaughlin, J. (2013): Teaching Climate Science Through Data and Visualizations, presented at the NSTA Conference, San Antonio, TX.
- Gold, A.U.**, Ledley, T.S., Buhr, S.M., Manduca, C.A., Fox, S.P., Kirk, K., Grogan, M., Niepold, F., Carley, S., Lynds, S., Howell, C. (2012): Supporting Teachers in Climate Change Instruction – The Climate Literacy and Energy Awareness Network (CLEAN) Tool Kit. American Geophysical Union (AGU) Fall Meeting, San Francisco, CA (invited presentation).
- Buhr, S., **Gold, A.U.**, Kellagher, E., Ledley, T., Lynds, S. (2012): Supporting Teachers' Needs in Climate Education: Strategies to forestall controversy, develop knowledge and build community. [invited] American Geophysical Union Fall Meeting, San Francisco, CA.
- Buhr, S., **Gold, A.U.**, Ledley, T., Lynds, S. (2012): Using Evaluation Studies to Understand Educator Needs, Practices and Strategies for Success in Climate Education. [invited] American Geophysical Union Fall Meeting, San Francisco, CA.
- Buhr, S., Ledley, T., **Gold, A.U.**, Manduca, C., Fox, S., Kirk, K., Grogan, M., Niepold, F., Lynds, S. (2012): Climate Literacy and Energy Awareness Network (Clean) – Supporting Teacher's Efforts to Prepare Students To Address Environmental Challenges. Geological Society of America Meeting, Charlotte, NC.

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- Ledley, T., Buhr, S., **Gold, A.U.**, (2012): Teaching Climate and Energy well: New reviewed collection of digital teaching materials around climate and energy topics. National Science Teacher Association Conference, Indianapolis, IN.
- Haddad, N., McNeal, K.S., Ledley, T.S., Ellins, K., Bardar, E., Youngman, B., Dunlap, C., Libarkin, J., Lynds, S., Buhr, S., **Gold, A.U.** (2012): Earthlabs Workshops: Increasing Teachers' Understanding and Ability To Teach Climate Science. – Geological Society of America Annual Meeting, Charlotte, NC.
- Gold, A.U.** (2011): Resources for Educators: Climate Literacy and Energy Awareness Network (CLEAN). Colorado Foundation for Water Education - Colorado's Climate and Water Future, Lakewood, CO.
- Gold, A.U.**, Buhr, S. (2011): Teaching about Climate and Energy. Center for Multiscale Modeling of Atmospheric Processes (CLIMMAP) - Colorado Global Climate Conference, Fort Collins, CO.
- Gold, A.U.**, Buhr, S., Lynds, S. (2011): New Collection of Digital Teaching Materials on Climate and Energy Topics Teaching About Climate and Energy Topics. Colorado Science Conference, Denver, CO.
- Ledley, T.S.; McCaffrey, M.S.; **Gold, A.U.**; Buhr, S.M.; Manduca, C.A.; Fox, S.; Kirk, K.B.; Grogan, M.; Niepold, F.; Lynds, S.E.; Howell, C. (2011): Climate Literacy and Energy Awareness Network (CLEAN) - Supporting the Scientists and Citizens of Tomorrow. American Geophysical Union (AGU), San Francisco, CA.
- Ledley, T.S., McCaffrey, Mark S., **Gold, A.U.**, Buhr, Susan, Manduca, Cathryn, Fox, Sean P., Grogan, Marian, Kirk, Karin B., Niepold, Frank, And Howell, Cynthia, 2011-10-9: The Climate Literacy and Energy Awareness Network (Clean) – Facilitating Climate and Energy Literacy. Geological Society of America (GSA), Minnesota, MN, USA
- Gold, A.U.**, Ledley, T.S., McCaffrey, M.S., Buhr, S.M., Manduca, C.A., Niepold, F., Fox, S., Howell, C., Lynds, S.E. (2010): Climate Literacy and Energy Awareness Network (CLEAN): New collection of high-quality digital teaching materials on climate and energy science. Colorado Science Conference, Denver, CO.
- Gold, A.U.**, Ledley, T.S., McCaffrey, M.S., Buhr, S.M., Manduca, C.A., Niepold, F., Fox, S., Howell, C., Lynds, S.E. (2010): Climate Literacy and Energy Awareness Network (CLEAN): A rigorous peer-review process for building a new collection of high-quality digital teaching materials on climate and energy science. Geological Society of America Fall Meeting, Denver, CO.
- Ledley, T.S. & **Gold, A.U.** (2010): Climate Literacy and Energy Awareness Network Pathway – Summary of a Rigorous Review Process. NASA GCCE (Global Climate Change Education) Webinar for Principal Investigators.
- Gold, A.U.**, Ledley, T.S., McCaffrey, M.S., Buhr, S.M., Manduca, C.A., Niepold, F., Fox, S., Howell, C., Lynds, S.E. (2010): Excellent digital teaching materials – summary of a rigorous review process - Climate Literacy And Energy Awareness Network Pathway. Colorado Learning and Teaching with Technology Conference (COLTT), Boulder, CO.
- Gold, A.U.** (2010): Climate Literacy and Energy Awareness Project (CLEAN) – High Quality Climate and Energy Teaching Resources. “Inspiring Climate Change Excellence (ICEE) Workshop, Boulder, CO, Boulder, CO.
- Reuther, A.U.**, Stea, R.R, Gosse, J.C. & McDonald, F. (2007): Deglaciation of Nova Scotia: a chronostratigraphic approach, Atlantic Geoscience Society (AGS), Moncton, Canada.
- Reuther, A.U.** (2007): “The glacial chronology of the Southern Carpathians, Romania, constrained by <sup>10</sup>Be exposure ages and pedological investigations” (Department of Earth Sciences, Dalhousie University, Mar 2007, Halifax, Canada)
- Reuther, A.U.** (2006): “Dating of a flooding event from ice-dammed lakes in the Russian Altai Mountains” Invited talk in the Bedford Institute of Oceanography, Dartmouth, Canada.
- Reuther, A.U.** (2006): “Reconstructing the Late Glacial and Last Glacial history of the Valle Pietrele, Retezat Mountains, Southern Carpathians” Presentation: Quaternary Research Group, Dalhousie University, Halifax, Canada:
- Reuther, A.U.** (2006): “Climate and paleoclimate in the Andes with a focus on the transition zone”. Presentation at the Andes Research Group Workshop, Dalhousie University, Halifax, Canada.
- Reuther, A.U.**, Stea, R.R, Gosse, J.C. & McDonald, F. (2006): Deglaciation of Nova Scotia: a chronostratigraphic approach. First results. Atlantic Canada Ice Dynamics (ACID)-Workshop, Halifax, Canada.
- Förster, K., **Reuther, A.**, Fiebig, M., Strunk, H., & Heine, K. (2006). Dating of raised beach deposits in Gipsdalen, coastal west Svalbard, using surface exposure dating (<sup>10</sup>Be, <sup>36</sup>Cl) and radiocarbon ages. *Atlantic Geology*, Vol. 42(1).
- Reuther, A.U.**, Stea, R.R., Gosse, J.C., McDonald, F. (2007): Deglaciation of Nova Scotia - a chronostratigraphic approach. *Atlantic Geology*, Vol. 43, No. 1, p. 25.
- Reuther, A.U.**, Reitner, J.M, Ivy-Ochs, S., Herbst, P. (2006): From kinematics to dating the Sturzstrom deposit of Feld (Matrei, Eastern Tyrol/Austria). *Geophysical Research Abstracts* 8. 04947.

## Publication List – Anne U. Gold (Reuther)

- Reitner, J., **Reuther, A.U.**, Ivy-Ochs, S., Herbst, P., Stadler, H., Kubik, P. & Draxler, I. (2006): The Sturzstrom event of Feld (Matrei / Eastern Tyrol / Austria). A forgotten Catastrophe during early human settlement in the Alps? Deutsche Quartär Vereinigung (DEUQUA) Conference, Bonn, Germany.
- Kubik, P.W. & **Reuther, A.U.** (2005): Attenuation of cosmogenic  $^{10}\text{Be}$  production within the first 20 cm below a rock surface. 10<sup>th</sup> Accelerator Mass Spectrometry (AMS) Congress, Lawrence Livermore California, USA.
- Reuther, A.U.**, Ivy-Ochs, S., Fiebig, M.C., Kubik, P.W. & Heine, K. (2005): Dating of the LGM: Attempts from the type-region of the Wuermian in the South German Alpine Foreland and from the Central German Highlands. Subcommission on European Quaternary Stratigraphy (SEQS) Conference, Bern, Switzerland.
- Reuther, A.U.**, Urdea, P., Ivy-Ochs, S., Geiger, C., Kubik, P.W. & Heine, K. (2004): Reconstructing the glacial history of the Valle Pietrele, Retezat Mountains, Southern Carpathians and the paleoclimatic implications of the last glacial cycle constrained from surface exposure ages ( $^{10}\text{Be}$ ) and pedological records. Subcommission on European Quaternary Stratigraphy (SEQS) Conference, Bern, Switzerland.
- Geiger, C., **Reuther, A.U.**, Urdea, P. & Heine, K. (2004): Constraining the Late Glacial history of the Valle Pietrele, Retezat Mountains, using GIS-based equilibrium line of altitude (ELA) modelling, supported by pedological field observation. International Workshop on Alpine Geomorphology and Mountain Hazards, Fagaras Mountains, Rumania.
- Reuther, A.U.**, Urdea, P., Ivy-Ochs, S., Geiger, C., Kubik, P.W. & Heine, K. (2004): Reconstructing the Last Glacial and Late Glacial history of the Valle Pietrele, Retezat Mountains, Southern Carpathians, using surface exposure dating with in-situ produced  $^{10}\text{Be}$ . International Workshop on Alpine Geomorphology and Mountain Hazards, Fagaras Mountains, Rumania.
- Reuther, A.U.**, Urdea, P., Ivy-Ochs, S., Geiger, C., Kubik, P.W. & Heine, K. (2004): Rekonstruktion der letztglazialen Vergletscherung des Valle Pietrele, Retezat Gebirge, Südkarpaten. Datierungen mit kosmogenem, in-situ produziertem  $^{10}\text{Be}$  gestützt durch pedologische Untersuchungen. Arbeitskreis (AK) für Geomorphologie Conference, Heidelberg, Germany.
- Reuther, A.U.** & Heine, K. (2004): Vergletscherung des Bayerischen Waldes am Beispiel des Kleinen Arberseegletschers und erste Ergebnisse vom Isar-Loisach Gletscher- Datierungen mit in-situ produziertem, kosmogenem  $^{10}\text{Be}$ . DEUQUA Subkommission Alpenvorland und Quartär (AGAQ) Conference (04/04), Bern, Switzerland.

## Conference and Workshop Poster Presentations

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- Hill, A., Padilla, A., Mattheis, A., Thurber, A., **Gold, A. U.**, Schneider, B., Ward, E., Marin-Spiotta, E., Tiampo, K. F., Dryák-Vallies, M. C., Hastings, M. G., Jacquemart, M., Cassotto, R. (2024): ADVANCEing FieldSafety: Preliminary Results of an Accessible Online Training Course, *American Geophysical Union Conference*, poster presentation.
- Christensen, A., Zaniboni, C., Pennycook, D., Okochi, C., **Gold, A. U.** (2024): Responding to a Changing World: Adaptations to an In-Person and Online REU Program, *American Geophysical Union Conference*, poster presentation.
- Zaniboni, C., Sommers, P., **Gold, A. U.**, Diaz, M. (2024): Girls\* on Rock - Inspiring Youth Engagement in the Geosciences Through Field Research, Artistic Expression, and Wilderness Education, *American Geophysical Union Conference*, poster presentation.
- Quispe, R., Murdock, J., Tucholke, M. B., Sommers, P., Diaz, M., **Gold, A. U.** (2024): Girls\* on Rock Expeditions: Insights from Female Geoscience Instructors, *American Geophysical Union Conference*, poster presentation.
- Boyd, K., Fiorile Desranleau, G., Chandler, P., **Gold, A. U.**, Niepold, F., Christensen, A., Ochwat, N., Bruckner, M. Z., Fox, S., Ledley, T. S. (2024): Climate Education with the Climate Literacy and Energy Awareness Network (CLEAN), *American Geophysical Union Conference*, poster presentation.
- Fiorile Desranleau, G., Boyd, K., **Gold, A. U.**, Niepold, F., Crim, H., Christensen, A., Chandler, P. (2024): The Accelerating Climate Capacity, Engagement, and Leadership Summit (ACCELS) Convened by CLEAN, *American Geophysical Union Conference*, poster presentation.
- Ward, E., **Gold, A.U.**, Moon, T.A., Khan, A., Schoenemann, S., Olson, M., Thomson, L., Werner, A. (2023): Measuring the Impacts of Interactive Environments and Geographic Information Systems (GIS) on Student Learning of Polar Places and Spaces. AGU Fall meeting (poster presentation).

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- Chandler, P., **Gold, A.U.**, Smead, J., Gordon, E., Gallison, C., Szameitat, P., Alvarez, M., Anstett, C., Heskett, C., McDermott, K. (2023): Chandler, P., **Gold, A.U.**, Smead, J., Gordon, E., Gallison, C., Szameitat, P., Alvarez, M., Anstett, C., Heskett, C., McDermott, K. AGU Fall meeting (poster presentation).
- Boyd, K., Fiorile-Desranleau, G., **Gold, A.U.**, Niepold, F., Chandler, P., Christensen, A., Ochwat, N., Bruckner, M., Fox, S, Ledley, T.S. (2023): The Climate Literacy and Energy Awareness Network (CLEAN). AGU Fall meeting (poster presentation).
- Cassotto, R., Hill, A.F., **Gold, A.U.**, Mattheis, A., Schneider, B., Ward, E., Marin-Spiotta, E., Tiampo, K., Dryák-Vallies, M., Hastings, M.G., Jacquemart, M. (2023): FieldSafe: Training for Diverse and Inclusive Geoscience Teams – A New Course and Toolkit. AGU Fall meeting (poster presentation).
- Dryák-Vallies, M., **Gold, A.U.**, Markle, B., Batchelor, R. (2023): PSECCO: A Community Office for Supporting Early Career Scientists and Advancing Equity and Inclusion in the Polar Sciences. AGU Fall meeting (poster presentation).
- Fiorile-Desranleau, G., Pennycook, D., **Gold, A.U.** (2023): Communication Planning for a Science Outreach and Education Program: Defining a Strategic Communication Plan for Education and Outreach Activities at a large environmental research institute. AGU Fall meeting (poster presentation).
- Gold, A.U.**, Hatheway, B., Mitchell, B., Lauer, C., Rongstad Strong, B., Gangeness, B., Throntveit, T and E. Snode-Brenneman (2023): Effective Strategies for Designing and Touring Traveling Exhibits around Climate Change and Water Topics. Association for Science and Technology Centers 2023 Annual Conference.
- Marsh, C.L., Rongstad, B., Schaecher, A., **Gold, A.U.**, Ratcliffe, C., Littrell, M., Okochi, C., Boyd, K., Maryboy, N.C., Begay, D.H., Stein, J., Valdez, S., Pennycook, D. & We are Water NSF AISL Project team (2022): Inclusive and culturally responsive science communication - How social media can inspire awareness, connection, and community through a place-based education project, American Geophysical Union Meeting, Chicago, December 2022, e-poster presentation.
- Khan, A., Schoenemann, S.W., Moon, T.A., **Gold, A.U.**, Ward, E.G., Pennycook, D, Lei, S. (2022): Engaging students in Polar Science: New undergraduate-level curriculum combines polar field data, 360-degree virtual experiences and GIS to transport students to Greenland, American Geophysical Union Meeting, Chicago, December 2022, poster presentation.
- Dryak, M.C, Batchelor, R.L., **Gold, A.U.**, Markle, B. (2022): PSECCO: A New Community Office for Supporting Early Career Scientists and Advancing Equity and Inclusion in the Polar Sciences, , American Geophysical Union Meeting, Chicago, December 2022, poster presentation.
- Quarderer, N., Balch, J., Nagy, R.C., **Gold, A.U.**, Culler, E., Herwehe, L., Korinek, N., Halama, K., Sanovia, J., Tinant, J., Parr, D, Giggane, E., Logan, J., Travis, W., Wasser, L. (2022): The Earth Data Science Corps & ESIIIL Stars Programs: Models for Learning and Teaching Environmental Data Science Skills. , American Geophysical Union Meeting, Chicago, December 2022, poster presentation.
- Tiampo, K.F., Hill, A.F., Jacquemart, M., Cassatto, R., **Gold, A.U.**, Dryak, M.C., Ward, E.G. (2022): FieldSafe: Building Inclusive and Safe Field Teams, American Geophysical Union Meeting, Chicago, December 2022, poster presentation.
- Fiorile, G., Boyd, K., **Gold, A.U.**, Niepold, F., Crim, H. & ACCELS planning team (2022): The Accelerating Climate Capacity, Engagement, and Leadership Summit (ACCELS) convened by CLEAN, American Geophysical Union Meeting, Chicago, December 2022, poster presentation.
- Balch, J., Nagy, R.C., Amaral, C, Culler, E., **Gold, A.U.**, Iglesias, V., Montelioni, Cl, Parker, J.N., Rattling Leaf, J., Sanovia, J., Stavros, N, Sullivan, S.M., Swetnam, T.L., Tuff, T., Quarderer, N. (2022): The Environmental Data Science Innovation & Inclusion Lab (ESIIIL): a next-generation NSF data synthesis center, American Geophysical Union Meeting, Chicago, December 2022, poster presentation.
- Boyd, K., Fiorile, G., **Gold, A.U.**, Niepold, F., Christensen, A., Ochwat, N, Bruckner, M., Fox, S., Kirk, K.B., Ledley, T.S. (2022): The Climate Literacy and Energy Awareness Network (CLEAN), American Geophysical Union Meeting, Chicago, December 2022, poster presentation.
- Okochi, C., Christensen, A., **Gold, A.**, Batchelor, R., Marsh, C. (2021): Evolution of an Evaluation Plan: Towards a Deeper Understanding of Students’ Trajectories in the Research Experience for Community College (RECCS) Program. *American Geophysical Union Fall Meeting*, New Orleans, virtual
- Boyd, K., **Gold, A.**, Niepold, F., Ochwat, N, Christensen, A., Chandler, P., Bruckner, M., Kirk, K., Ledley, T. (2021): The Climate Literacy and Energy Awareness Network (CLEAN). *American Geophysical Union Fall Meeting*, New Orleans, virtual
- Quaderer, N., Wasser, L., Herwehe, L, Montano, P., **Gold, A.U.**, Korinek, N. (2021): Assessing Students' Self-Perceived Growth in Python Skills, Data Science Skills, Science Communication Skills, Science Practices

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- & Science Identity: An Examination of the Earth Data Science Corps 2020-2021. *American Geophysical Union Fall Meeting*, New Orleans, virtual
- Griffith, J., Harden, L., **Gold, A.**, Kay, J. (2020): On board with MOSAiC: how an Arctic research expedition can engage students in Earth's systems thinking. *American Geophysical Union Fall Meeting*. virtual.
- Boyd, K., **Gold, A.**, Niepold, F., Ochwat, N., Christensen, A., Morton, A., Chandler, P., Bruckner, M., Manning, C., Ledley, T. (2020): The Climate Literacy and Energy Awareness Network (CLEAN). *American Geophysical Union Fall Meeting*. virtual.
- Wasser, L., Herwehe, L., Montano, P., **Gold, A.**, Quarderer, N., Biggane, E., Guinn, J., Sanovia, J., Parr, D., Korinek, N. (2020): Lowering Barriers to Teaching Earth Data Science to Undergraduates in Historically Underrepresented Communities Using a Virtual, Cloud-Compute Supported, Student-Directed Learning Environment. *American Geophysical Union Fall Meeting*. virtual.
- Schloesser, K., Christensen, A., Leckey, E., **Gold, A.**, Littrell, M., Boyd, K., Okochi, C., Morton, A. (2020) Creating Authentic Opportunities for Youth to Build Resilience to Environmental Hazards in Rural Colorado. *American Geophysical Union Fall Meeting*. virtual.
- Boyd, K., **Gold, A.**, Niepold, F., Lynds, S., Morton, A., Bruckner, M., Manning, C., Chandler, P., Ledley-Shapiro, T., Kirk, K. (2019): The Climate Literacy and Energy Awareness Network (CLEAN). *American Geophysical Union Fall Meeting*, San Francisco, CA
- Morrison, A., **Gold, A.**, Kay, J. (2019): Increasing student engagement by incorporating authentic climate science research in the classroom. *American Geophysical Union Fall Meeting*, San Francisco, CA
- Niepold, F., Spitzer, W., Kretser, J., Poppleton, K., Scowcroft, G., Farooque, M., Valetta, R., Arditi-Rocha, Y., **Gold, A.** et al. (2019): Increasing Our Capacity to Address Climate Change - Developing a Model for Effective Regional Climate Literacy Networks. *American Geophysical Union Fall Meeting*, San Francisco, CA
- Curry Minaya, R., **Gold, A.**, Briggs J., Smith, L., Anderson, S. (2017): Community College Student Success: Outcomes from a 2YC-focused Student Summer Research Program. *CIRES Rendezvous*, Boulder, CO.
- Leckey, E., **Gold, A.**, González-Basco, I., Boyd, K., Taylor, J. (2018): Climate Science Engagement Opportunities for Teachers and Students in Puerto Rico. *CIRES Rendezvous*, Boulder, CO.
- Curry Minaya, R., **Gold, A.**, Briggs J., Smith, L., Anderson, S. (2018) Community College Student Success: Outcomes from a 2YC-focused Student Summer Research Program. *Geo REU Principal Investigator Meeting*, Boulder, CO.
- Boyd, K., **A. Gold**, J. Taylor, S. Lynds, A. Morton, F. Niepold, M. Bruckner, S. Fox, K. Kirk, T. Ledley-Shapiro, C. Manning (2018): The Climate Literacy and Energy Awareness Network (CLEAN). *American Geophysical Union Fall Meeting*, Washington, D.C.
- Gold, A.U.**, Leckey, E., Littrell, M., Okochi, C., Lynds, S., Wise, S. (2018): Lens on Climate Change. Inspiring youth to learn about local impacts of climate change through filmmaking- a transformative experience. *American Geophysical Union Fall Meeting*, Washington, D.C.
- Leckey, E., **Gold, A.**, Boyd, K., Taylor, J., Littrell, M., Morton, A. (2019): Empowering Rural Communities to increase Sustainability and Resilience through Disaster Planning Games. *National Council of the Environment*, Washington, DC
- Boyd, K., **A. Gold**, J. Taylor, S. Lynds, A. Morton, F. Niepold, M. Bruckner, S. Fox, K. Kirk, T. Ledley-Shapiro, C. Manning (2019): The Climate Literacy and Energy Awareness Network (CLEAN). *CIRES Rendezvous*, Boulder, CO
- Gold, A. U.**, Boyd, K., Leckey, E. H., Littrell, M., Lynds, S. E., Curry, R. M., Morton, A., Okochi, C., Schloesser, K., Taylor, J. (2019): How CIRES Education & Outreach can support you and broaden the impact of your science. *CIRES Rendezvous*, Boulder, CO.
- Gold, A.**, Schloesser, K., Shupe, M., Human, K., Morris, S., (2019): Participate in a Year in Arctic on board a research vessel from Anywhere - Coordinating Education, Outreach and Communication of the MOSAiC expedition. *CIRES Rendezvous*, Boulder, CO.
- Curry, R.M., **Gold, A.U.**, Briggs, J., Smith, L. (2018): Attracting Students into Science: Insights from a Summer Student Research Program for Community College Students in Colorado, Geo REU PI meeting, Boulder, CO.
- Morrison, A., Kay, J.E., **Gold, A.U.**, McNeal, K., Soltis (2018): Using Galvanic Skin Sensors to Measure Engagement and Learning Outcomes During Teacher Workshops and Undergraduate Classes about Climate Science., *Earth Educators' Rendezvous*, Lawrence, KS.
- Smith, L., **Gold, A.U.**, Anderson, S., Taylor, J., Batchelor, R. (2018): Attracting Students into Science: Insights from a Summer Student Research Program for Community College Students in Colorado, *CIRES Rendezvous*, Boulder, CO.

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- Gold, A.U.**, Boyd, K., Leckey, E.H., Littrell-Baez, M., Lynds, S.E., Minaya, R., Morton, A., Okochi, C., Taylor, J. (2018): How CIRES Education & Outreach can support you and broaden the impact of your science. CIRES Rendezvous, University of Colorado Boulder, May.
- Morrison, A., **Gold, A.U.**, Soltis, N., McNeal, K., Kay, J.E. (2017): Measuring Engagement and Learning Outcomes During a Teacher Professional Development Workshop about Creative Climate Communication. American Geophysical Union Fall Meeting, New Orleans.
- Gold, A.U.**, Kay, J., Morrison, A., McFerrin, B. (2017): Increasing Student Learning about Climate Science – Are Polar Bears an Effective Emotional Hook? Center for STEM Learning, iSTEM Meeting, University of Colorado Boulder, September.
- Littrell-Baez, M., Clark, J., Leckey, E., **Gold, A.**, Wise, S., Lynds, S. (2017): Science and Storytelling through Film: A Case Study on Native American Students in the Lens on Climate Change Summer Workshop. American Indian Science and Engineering Society Meeting, Denver, CO.
- Gold, A.**, S. Sullivan, J. Taylor, S. Lynds, F. Niepold, M. Grogan, S. Fox, T. Ledley (2017): The Climate Literacy and Energy Awareness Network (CLEAN), Earth Educators' Rendezvous, Albuquerque, NM.
- Sullivan, S., **A.U. Gold**, C.L.B. Manning, J. Taylor, K. Kirk, M. Bruckner, F. Niepold, S. Lynds, S. Fox, T. Ledley (2017): NGSS with the Climate Literacy and Energy Awareness Network (CLEAN) Collection. Geological Society of America, Seattle, WA.
- Gold, A.U.**, Kay, J. E., Morrison, A., MacFerrin, B. (2017): Increasing Student Learning about Climate Science: Are Polar Bears an Effective Emotional Hook? CIRES Rendezvous, Boulder, CO.
- Lynds, S., Sullivan, S., **Gold, A.U.**, Morton, A. (2017): Evaluating Federal Agency Web Portals Using the Quality of Relationship Metric, CIRES Rendezvous, Boulder, CO.
- Smith, L., **Gold, A.U.**, Anderson, S., Taylor, J., Batchelor, R. (2017): Attracting Students into Science: Insights from a Summer Student Research Program for Community College Students in Colorado, CIRES Rendezvous, Boulder, CO.
- Leckey, E., **Gold, A.U.**, Littrell-Baez, M., Wise, S., Smith, L., Oonk, D., Lynds, S., Cozzetto, K., Alweis, D., Boykoff, M., Osnes, B., Safran, R. Williams, V. (2017): Engaging Diverse Secondary Students in Climate Science through Filmmaking in the Lens on Climate Change Program, CIRES Rendezvous, Boulder, CO.
- Sullivan, S., **Gold, A.U.**, Leckey, E., Littrell-Baez, M.K., Lynds, S., Morton, A., Oonk, D., Smith, L., Taylor, J. (2017): Working with the CIRES Education and Outreach Group, CIRES Rendezvous, Boulder, CO.
- Ledley, T.S., Grogan, M., **Gold, A.U.**, Sullivan, S.B., Fox, S., Manduca, C.A., Niepold, F. (2016): Using the CLEAN Collection to Build NGSS Aligned Earth System Investigations. Geological Society of America, Denver, CO.
- Gold, A.U.**, Leckey, E., Woods, M., Wise, S., Smith, L., Oonk, D., Lynds, S., Cozzetto, K., Alweis, D., Boykoff, M., Osnes, B., Safran, R., Williams, V. (2016): Engaging Diverse Secondary Students in Climate Science through Videography. ITEST PI-meeting, Arlington, VA
- Morrison, A.L., Kay, J.E., **Gold, A.U.**, MacFerrin, B., McNeal, K. (2016): Assessing the use of polar bear hooks in learning climate science. ATOC Poster Session, Boulder, CO.
- Gold, A.U.**, Leckey, E., Woods, M., Wise, S., Smith, L., Oonk, D., Lynds, S., Cozzetto, K., Alweis, D., Boykoff, M., Osnes, B., Safran, R., Williams, V. (2016): Engaging Diverse Secondary Students in Climate Science through Videography. European Geophysical Union Meeting, Vienna, Austria
- Smith, L., **Gold, A.U.**, Anderson, S., Taylor, J., Batchelor, R. (2016): Attracting Students into Science: Insights from a Summer Student Research Program for Community College Students in Colorado, CIRES Rendezvous, Boulder, CO.
- Leckey, E., **Gold, A.U.**, Woods, M., Wise, S., Smith, L., Oonk, D., Lynds, S., Cozzetto, K., Alweis, D., Boykoff, M., Osnes, B., Safran, R. Williams, V. (2016): Engaging Diverse Secondary Students in Climate Science through Filmmaking in the Lens on Climate Change Program, CIRES Rendezvous, Boulder, CO.
- Sullivan, S., **Gold, A.U.**, Leckey, E., Lynds, S., Morton, A., Oonk, D., Smith, L., Taylor, J. (2016): Working with the CIRES Education and Outreach Group, CIRES Rendezvous, Boulder, CO.
- Ledley, T.S., **Gold, A.U.**, Niepold, F., Grogan, M., Sullivan, S., Fox, S., Manduca, C. (2015): The Climate Literacy and Energy Awareness Network (Clean) Project. Geological Society of America Meeting, Baltimore, MD.
- Haddad, N., Ellins, K., Ledley, T., Lynds, S., **Gold, A.U.** (2015): EarthLabs: A Resource for Earth System Education. Earth Educators' Rendezvous Boulder, Boulder, CO.
- Ledley, T.S., **Gold, A.U.**, Grogan, M., Fox, S., Niepold, F., Sullivan, S.B., Manduca, C. (2015): The Climate Literacy and Energy Awareness Network (CLEAN). Earth Educators' Rendezvous, Boulder, CO.
- Gold, A.U.**, E. Leckey, M. Woods, S. Wise, L. Smith, D. Oonk, S. Lynds, K. Cozzetto, D. Alweis, M. Boykoff, B. Osnes, R. Safran, V. Williams, (2016): Engaging Diverse Secondary Students in Climate Science through Videography. ITEST PI-meeting, Arlington, VA



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- Leckey, E., **Gold, A.U.**, Wise, S., Littrell-Baez, M., Lynds, S., Oonk, D., Smith, L., Cozzetto, K., Alweis, D., Forsyth, S., Carpenter, E. (2016): Engaging Diverse Secondary Students in Climate Science through Videography. CIRES Rendezvous, Boulder, CO.
- Ledley, T.S., Grogan, M., **Gold, A.U.**, Sullivan, S., Fox, S., Manduca, C.A., Niepold, F. (2016): Using the Clean Collection to Build NGSS Aligned Earth System Investigations. Geological Society of America, Denver, CO.
- Smith, L., **Gold, A.U.**, Anderson, S.P., Taylor, J.L., Fierer, N., Batchelor, R. (2016): Attracting Students into Science: Insights from a Summer Research Internship Program for Community College Students in Colorado. CIRES Rendezvous, Boulder, CO.
- Morrison, A.L., Kay, J.E., **Gold, A.U.**, MacFerrin, B., McNeal, K., 2016-12-0: Assessing the use of polar bear hooks in learning climate science. ATOC Poster Session, Boulder, CO.
- Sullivan, S., **Gold, A.U.**, Leckey, E., Lynds, S., Morton, A., Oonk, D., Smith, L., Taylor, J. (2016): Working with the CIRES Education and Outreach Group. CIRES Rendezvous, Boulder, CO.
- Gold, A.U.**, Smith, L., Anderson, S., Taylor, J., Batchelor, R., Monday, B., Fierer, N., Rangwala, I. and McCutchan, J. (2015): Attracting Students into Science: Insights from a Summer Research Internship Program for Community College Students in Colorado. CIRES Rendezvous, Boulder, CO.
- Oonk, D., **Gold, A.U.**, Cozzetto, K., Avery, K., Bergren, J., and Nakai, J. (2015): Tribe's Eye Project. CIRES Rendezvous, Boulder, CO.
- Gold, A.U.**, Stempien, J., Kravitz, K., Oonk, D., Mueller, K., Budd, D., (2014): Investigating the Impact of Spatial Reasoning Training on Skill Development, Retention, and the Gender Gap in Geology. iSTEM Meeting, University of Colorado, Boulder, CO.
- Lynds, S., **Gold, A.U.**, McNeal, K.S., Libarkin, J., Sullivan, S.B., Ledley, T., Haddad, N., Ellins, K. (2013): Investigating Climate Science Misconceptions Using a Teacher Professional Development Workshop Registration Survey. American Geophysical Union Meeting, San Francisco, CA.
- Niepold, F., Ledley, T.S., **Gold, A.U.**, Breslyn, W.G., Carley, S. (2013): Improving the Nation's Climate Literacy Through the Next Generation Science Standards. Fall American Geophysical Union Meeting, San Francisco, CA.
- Grogan, M., Niepold, F., Ledley, T.S., **Gold, A.U.**, Breslyn, W.G., Carley, S. (2013): Improving the Nation's Climate Literacy through the Next Generation Science Standards, American Geophysical Union Fall Meeting, San Francisco, CA.
- Ledley, TS, **Gold, A.U.**, Sullivan, S.B., Manduca, C.A., Fox, S., Kirk, K., Grogan, M., Niepold, K. (2013): Climate Literacy and Energy Awareness Network (CLEAN) – Providing Reviewed Educational Resources to Enhance the Effective Use of Earth Science Data and Knowledge. ESIP Federation Meeting, Chapel Hill, NC.
- Gold, A.U.**, Harris, S. (2013): Studying effective approaches of teaching the Greenhouse Effect. iSTEM event, University of Colorado, Boulder, CO.
- Gold, A.U.**, Buhr, S.S., Kellagher, E., Morrison, D., Lynds, S.E. (2013): Inspiring Climate Education Excellence (ICEE): Navigating climate instruction in the secondary science classroom, Triagency PI Meeting in Washington, DC.
- Gold, A.U.**, Buhr, S.M., Ledley, T.S., Manduca, C.A., Niepold, F., Lynds, S.E. (2013): Teaching tools offered by the Climate Literacy and Energy Awareness Network (CLEAN). CIRES Rendezvous, Boulder, CO.
- Buhr, S., Arthur, T., Feld, J., **Gold, A.U.**, Lynds, S., McCaffrey, M., Morton, E., Smith, L. (2011): Highlights from the CIRES Education and Outreach Group. CIRES Rendezvous, Boulder, CO
- Gold, A.U.** McCaffrey, M.S., Buhr, S.M., Lynds, S.E. (2011): The Climate Literacy and Energy Awareness (CLEAN) collection of peerreviewed high-quality digital teaching materials. CIRES Rendezvous 2011, Boulder, CO
- Gold, A.U.**; Ledley, T.S.; Kirk, K.B.; Grogan, M.; McCaffrey, M.S.; Buhr, S.M.; Manduca, C.A.; Fox, S.; Niepold, F.; Howell, C.; Lynds, S.E. (2011): Addressing climate and energy misconceptions – teaching tools offered by the Climate Literacy and Energy Awareness Network (CLEAN). American Geophysical Union (AGU), San Francisco, CA, USA
- Ledley, T.S., Grogan, M., Lockwood, J., Dunlap, C., Buhr, S.M., **Gold, A.U.**, McCaffrey, M.S., Lynds, S.E., Manduca, C.A., Fox, S., Kirk, K.B., Niepold, F., Howell, C. (2011): Climate Literacy and Energy Awareness Network (CLEAN). Federation of Earth Science Information Partners, Santa Fee, NJ.
- Ledley, T.S., McCaffrey, M.S., Buhr, S.M., **Gold, A.U.**, Lynds, S.E., Manduca, C.A., Fox, S., Niepold, F., Howell, C. (2010): Climate Literacy and Energy Awareness Network (CLEAN) Pathway - Teaching Climate and Energy Science: Teaching materials, Professional Development, Social Networking. iSTEM Meeting at CU Boulder, University of Colorado, Boulder, CO.

*Publication List – Anne U. Gold (Reuther)*

- Ledley, T.S., Grogan, M., Lockwood, J., Comer, C., McCaffrey, M.S., Buhr, S.M., **Gold, A.U.**, Lynds, S.E., Manduca, C.A., Fox, S., Kirk, K., Iverson, E., Niepold, F., Howell, C., Carley, S. (2010): Climate Literacy and Energy Awareness Network (CLEAN) Pathway - Teaching Climate and Energy Science: Teaching materials, Professional Development, Social Networking. National Science Digital Library (NSDL) Annual Meeting, Washington, D.C.
- Buhr, S.M., Arthur, T., **Gold, A.U.**, Lynds, S.E., McCaffrey, M.S., Smith, L., Wise, S. (2010): Highlights from the CIRES Education and Outreach Group. CIRES Rendezvous, Boulder, CO.
- Reuther, A.U.**, Ivy-Ochs, S., Fiebig, M., Kubik, P.W. & Heine, K. (2007): Dating the LGM: attempts from the type-region of the Würmian glaciation in the southern German Alpine Foreland and from the Central German Highlands INQUA 2007 - 17<sup>th</sup> International Congress of the Union of Quaternary Research, Cairns, Australia.
- Heine, K., **Reuther, A.U.**, Urdea, P., Ivy-Ochs, S., Kubik, P.W., Geiger, C., Schlaak, N. & Niller, H.-P. (2007): Timing of Late Pleistocene Mountain glaciation using cosmogenic in situ <sup>10</sup>Be: the southern Carpathians and the Bavarian Forest compared to the Bavarian Alpine Foreland and northern Germany. - 17<sup>th</sup> International Congress of the Union of Quaternary Research, Cairns, Australia.
- Urdea, P., **Reuther, A.U.**, Heine, K., Ivy-Ochs, S., Kubik, P.W. & Geiger, C. (2007): New data concerning Quaternary glaciation in the Transylvanian Alps (Romania). - 17<sup>th</sup> International Congress of the Union of Quaternary Research, Cairns, Australia.
- Reitner, J. M., **Reuther, A. U.**, Ivy-Ochs, S., Herbst, P., Stadler, H., Kubik, P. W. & Draxler, I., (2006): The sturzstrom event of Feld (Matsch/Eastern Tyrol/Austria): A forgotten catastrophe during early human settlement in the Alps? 150 Years of Neanderthal Discoveries: Early Europeans - continuity & discontinuity Conference, Bonn, Germany.
- Reuther, A.U.**, Reitner, J., Ivy-Ochs, S. & Herbst, P. (2006): From kinematics to dating – the sturzstrom deposits of Feld (Matsch, Eastern Tyrol, Austria). European Geoscience Union (EGU) Conference, Vienna, Austria.
- Förster, K., **Reuther, A.U.**, Fiebig, M.C., Strunk, H. & Heine, K. (2006): Dating of raised beach deposits in Gipsdalen, coastal west Svalbard, using surface exposure dating (<sup>10</sup>Be, <sup>36</sup>Cl) and radiocarbon ages. European Geoscience Union (EGU) Conference, Vienna, Austria.
- Förster, K., **Reuther, A.U.**, Fiebig, M.C., Strunk, H. & Heine, K. (2006): Dating of raised beach deposits in Gipsdalen, coastal west Svalbard, using surface exposure and radiocarbon ages. Atlantic Geoscience Society (AGS) Conference, Wolfville, Nova Scotia, Canada.
- Geiger, C., **Reuther, A. U.**, Urdea, P. & Heine, K. (2004): GIS-basierte Modellierung der Gletschergleichgewichtslinie (ELA) des Spätglazials im Valle Pietrele, Retezat Gebirge, Südkarpaten. Arbeitskreis (AK) für Geomorphologie Conference, Heidelberg, Germany.
- Reuther, A.U.**, Gosse, J.C., Ivy-Ochs, S., Fiebig, M.C., Kubik, P.W., Yang, G. & Heine, K. (2004): Dating of the LGM: Attempts from the type-region of the Würmian in the South German Alpine Foreland and from the Central German Highlands. International Geological Congress (IGC) Florence, Italy.