

## Anne U. Gold (Reuther)

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Cooperative Institute for Research in Environmental Science (CIRES)  
Education and Outreach Group  
University of Colorado at Boulder  
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### EMPLOYMENT HISTORY

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since 2017	<b>Director Education and Outreach</b> Cooperative Institute for Research in Environmental Sciences (CIRES), Boulder, CO
since 2010	<b>Associate Scientist III</b> , Education and Outreach Cooperative Institute for Research in Environmental Sciences (CIRES), Boulder, CO
2007–2009	<b>Division Director</b> German Alpine Association, Munich, Germany
2005–2007	<b>Postdoctoral Research Fellow</b> Department of Earth Sciences, Dalhousie University Halifax, Canada
2002–2005	<b>Research Assistant</b> University of Regensburg, Germany, Department of Geography
2002–2003	<b>Teaching Position and Research Assistant</b> University of Regensburg, Germany, Department of Geography
1997–1999	<b>Teaching assistant, Student assistant</b> , University of Regensburg, Germany

### ACADEMIC EDUCATION

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**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 Masters 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 honours*)

### EXPERTISE

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#### Education and Outreach

Education Research: Spatial thinking research, effectiveness of teaching climate topics, development of mental models; assessment techniques; learning nature of science; impact of cognitive and emotional engagement on learning.

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

Project Evaluation: Formative and summative evaluator for teacher professional development projects, education programs.

Curriculum Development: Principle investigator and curriculum developer. Focus: data-driven curriculum.

Teacher Professional Development: Principle investigator and delivery of face-to-face workshops; online and distance courses; Massive Open Online Courses (MOOC).

Student Engagement: Principle investigator on video projects for secondary school students, including mentoring by graduate and undergraduate students; mentor training.

Digital Library: Co-PI, project manager for NSF/NOAA-funded Climate Literacy and Energy Awareness Network (CLEAN, cleanet.org) – including development of peer-review process for educational resources, coordination of review process and panels, project marketing, national climate literacy collective impact coordination.

Research Experience for Undergraduate Students: Co-PI; mentor recruitment and training; program evaluation; student mentoring; program coordination.

### Science

Climate Science: Paleoclimatology, Quaternary Geology and Geomorphology, landscape evolution – Regional Focus: European Alps, German low elevation mountains, Romania, Russian Altai, Argentina, Chile, Maritime Canada.

### Geographical Information Systems

Cosmogenic Nuclide Dating Techniques (<sup>10</sup>Be, <sup>26</sup>Al, <sup>36</sup>Cl)

## PUBLICATIONS / CONFERENCE CONTRIBUTIONS

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Scientific Publications **h-index: 11; i10-index: 14** (Google Scholar)

- 30 publications in peer-reviewed journals
- 1 book (4 peer-reviews), Proceedings of the Bavarian Academy of Sciences
- Contributions to international conferences and workshops (>80 oral; >50 poster presentations)
- Articles and contributions for newspapers and non-scientific journals

## FUNDING (in leadership role at CIRES)

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Total funding in leadership role through CIRES awarded \$2.8 Mio.

Funding source	Proposal	Role	Total Amount for Outreach
NSF	REU-RECCS (renewal grant)	PI	\$391,970
CU	Chancellor's Award - Spatial Thinking	PI	\$8,900
CU	Outreach Award – LOCC extension	PI	\$9,000
NOAA	CLEAN Core	PI	\$501,951
Novim	UC Berkeley- Improving Pre-College Teaching of Climate Change	PI	\$21,826
CU	Community Impact Proposal	PI	\$8,000
NSF	ITEST supplement	PI	\$8,105
NSF	CAREER (Lundquist)	Education Lead	\$120,004
NSF	CAREER (Kay)	Education Lead	\$214,664
NSF	REU – RECCS	Co-PI	\$353,356
NSF	ITEST-LOCC	PI	\$1,094,533

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

Germany	Scholarship: Research Stay for University Academics and Scientists	Awardee	3 months salary + benefits
NSF	Grachev Broader Impacts	Education Lead	\$24,837
CU	Outreach Award – Tribe’s Eye	PI	\$8,000
CU	Chancellor’s Award – Spatial Thinking	PI	\$10,000
CU	Outreach Office – Webinars	PI	\$7,000
CU	Outreach Award – LOCC	PI	\$13,625

### SYNERGISTIC ACTIVITIES

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- Coordination Committee NSF ITEST PI Meeting 2018
- Climate Literacy and Energy Awareness Network Co-Chair (since 2017)
- Geoscience Education Research NSF-funded Community Planning Workshop member (2017)
- Coordinator for 11 climate literacy sessions at American Geophysical Union (AGU) 2017, 2018, a climate literacy townhall meeting, a climate literacy workshop and a climate career panel.
- National Association for Geoscience Teachers (NAGT) – Officer Geoscience Education Research Division (since 2016)
- American Geophysical Union (AGU) session convener 2014, 2013, 2012, 2011, 2010
- 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)

### ACADEMIC TEACHING / ADVISING STUDENTS

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#### 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 – April 2015: 5300 students; Canvas Platform – June 2014: 500 students)
- Teacher professional development workshops, presentations, seminars (virtual and face-to-face, 2010-2017)

#### ADVISING (Diploma students – German equivalent of Masters degree)

**4 Students:** 2015, Geoscience Education, A. Rothmaier (2016); Geography, T. Kuhnt (2007); Physical Geography, K. Förster (2005); C. Geiger (2004).

### SCHOLARSHIPS / AWARDS

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- 2018 **Friends of the Planet Award by National Center for Science Education (NCSE)** for CLEAN Network and CLEAN Collection.
- 2017 **University of Colorado – Chancellor’s Award for Excellence in STEM Education** – \$8,900 for Spatial reasoning research program with Department of Geological Sciences, CU Boulder
- 2015-2016 **Research Stays for University Academics and Scientists (German Academic Exchange Council)**

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

- Award**– Visiting scientists appointment 3 months at Ludwig Maximilian University, Munich during a 12 month visiting scientist appointment.
- 2014 **University of Colorado – Chancellor’s Award for Excellence in STEM Education** – \$10.000 for Spatial reasoning research program with Department of Geological Sciences, CU Boulder.
- 2014 **Webby Award** for CLEAN Collection.
- 2006 **Paul-Wolstedt Award of the German Quaternary Association** – dissertation was recognized as a significant and outstanding contribution to Quaternary research.
- 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
- 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.

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

**Publications in Scientific and Educational Journals (h-index=11, i10=14; Google Scholar)**

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- (31) **Gold, A.U.**, Pendergast, P., Ormand, C., Budd, D., Mueller, K. (accepted with revisions): Improving Spatial Thinking Skills among Undergraduate Geology Students through short online Training Exercises. *International Journal for Science Education*.
- (30) Libarkin, J.C, **Gold, A.U.**, Harris, S.E., McNeal, K.S, Bowles, R.P. (accepted w/minor revisions, May 2018): A new, valid measure of climate change understanding: Associations with risk perception. *Climatic Change*.
- (29) **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*, v. 14, no. 2, doi:10.1130/GES01494.1.
- (28) **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)
- (27) 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*. doi:10.1002/tea.21430
- (26) \*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 (graduate student publication, I was the lead mentor for the student)*
- (25) Harris, S., **Gold, A.U.** (2017): Learning molecular behaviour may improve student explanatory models of the greenhouse effect - *Environmental Education Research*, doi: 10.1080/13504622.2017.1280448.
- (24) 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
- (23) **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.
- (22) **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.
- (21) **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/)
- (20) 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.
- (19) 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.
- (18) 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.

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

- (17) 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.
- (16) 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.
- (15) **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.
- (14) **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.
- (13) 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 <sup>10</sup>Be. - *Zeitschrift für Geomorphologie*, Vol. 53, pp. 433-454.
- (12) 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.
- (11) 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.
- (10) **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 <sup>10</sup>Be exposure ages and pedological investigations. - *Quaternary International*, Vol. 164-165, pp. 151-169.
- (9) Kubik, P.W. & **Reuther, A.U.** (2007): Attenuation of cosmogenic <sup>10</sup>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.
- (8) **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.
- (7) **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.
- (6) 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 <sup>10</sup>Be, <sup>26</sup>Al, <sup>36</sup>Cl, and <sup>21</sup>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.
- (5) 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.
- (4) **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 <sup>10</sup>Be. – *Geology*, Vol. 34, pp. 913 – 916.
- (3) **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.
- (2) **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.
- (1) **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

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**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, Talks outside of Conferences (since 2014)

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- 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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- 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.

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- 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
- 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) –

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

- 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.
- 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

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(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 talk) 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 talk) 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.
- 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 Principle 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

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

- 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  $^{10}\text{Be}$  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.
- Reitner, J., **Reuther, A.U.**, Ivy-Ochs, S., Herbst, P., Stadler, H., Kubik, P. & Draxler, I. (2006): The Sturzstrom event of Feld (Materi / 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.  $10^{\text{th}}$  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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- 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
- 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.
- Lesley K. Smith, **Gold, A.U.**, Anderson, S.P., Taylor, J.L., Fierer, N., Batchelor, R. (2016): Attracting Students Into

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

- 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.

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- 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.