

## **Topic: An Introduction to Sustainable Remediation**

**Speaker: Lindsay Burton, Project Manager, Antea Group**

**Time: Tuesday, March 17, 11:30am-1:00pm (Note: Change in DATE and location to Faegre Drinker Biddle & Reath LLP)**

*CEMS has applied for one (1) general CLE for this presentation*

Sustainable remediation integrates the “triple bottom line” of sustainability, the environmental, social and economic aspects, into environmental remediation projects. This presentation will define sustainable remediation and its application to reduce the environmental footprint of projects while also benefiting the surrounding community and its economy. The presentation will illustrate where sustainable remediation fits within the investigation, remediation, operations, and monitoring of hazardous waste site cleanups, explain the drivers behind sustainable remediation, and discuss what prompts responsible parties to integrate these concepts into their cleanup programs. Many times, we see the regulatory community enforcing clean up to the most stringent criteria which often may cause more environmental degradation than good. Tools and thought processes for working with regulatory agencies will be discussed so that the most sustainable remediation option and criteria for projects can be identified. This introductory presentation is designed to benefit remediation practitioners including consultants, contractors and regulators who are interesting in this developing area of the remediation industry.

Lindsay Burton works with clients in Manufacturing, Pharmaceutical, Chemical, Consumer Goods, Oil & Gas, Financial Services, and Food & Beverage industries to reduce their environmental and social impacts through corporate initiatives, engagement, and strategy development. She is fluent in corporate social responsibility reporting and disclosures, design and implementation of sustainability programs, peer benchmarking, stakeholder mapping, program story development, metrics calculations, sustainable remediation, and facilitating client workshops.

For complete topic information, a full biography, and reservations, please follow this link: [CEMS March Luncheon](#)

**LOCATION:** PLEASE note that the location for the March CEMS luncheon will be Faegre Drinker Biddle & Reath LLP. 1144 15th Street, Suite 3400, Denver, Colorado 80202. When entering the building, please proceed to the thirty fourth (34) floor, Suite 3400 to register with the CEMS representative.

**MEETING FORMAT:** Members may either bring their own lunch and attend the meeting for no charge, or they may request that CEMS order a box lunch for them. The cost of the box lunch for members is \$16.00; for non-members, \$19.00.

**RESERVATIONS: PLEASE** give your name, company name and phone number via email to [admin@coems.org](mailto:admin@coems.org). **PLEASE INDICATE IF YOU ARE RESERVING A BOX LUNCH OR BRINGING YOUR OWN.** Reservations must be received BEFORE Friday, March 13, 2020 at 5:00PM. No reservations can be taken after this date due to building security restrictions! Payment of \$16.00 for members, \$19.00 for non-members will be accepted at the door with prior reservation. Please cancel your reservation by Friday, March 13, 2020 if you are unable to attend. It is the policy of the Society to bill for meals reserved but unclaimed. You may also pay with credit card via PAYPAL by following this link: [CEMS March Luncheon](#)

**NOTICE:** CEMS would like to thank Faegre Drinker Biddle & Reath LLP for the use of meeting space and would like to emphasize that the use of Faegre Drinker Biddle & Reath LLP space does not constitute endorsement of CEMS, sponsors of CEMS functions, or the content of CEMS workshops or meetings.

## CEMS MOVIE NIGHT

Tuesday, April 21<sup>st</sup> 2020

Sie FilmCenter (2510 E Colfax, Denver)

### THE HUMAN ELEMENT

We humans are a force of nature. At the same time human activities alter the basic elements of life – earth, air, water, and fire – those elements change human life.

In an arresting new documentary from the producers of RACING EXTINCTION, THE COVE and CHASING ICE, environmental photographer James Balog captures the lives of everyday Americans on the front lines of climate change. With rare compassion and heart, THE HUMAN ELEMENT inspires us to reevaluate our relationship with the natural world.

#### INDIVIDUAL REGISTRATION AND SPONSORSHIP:

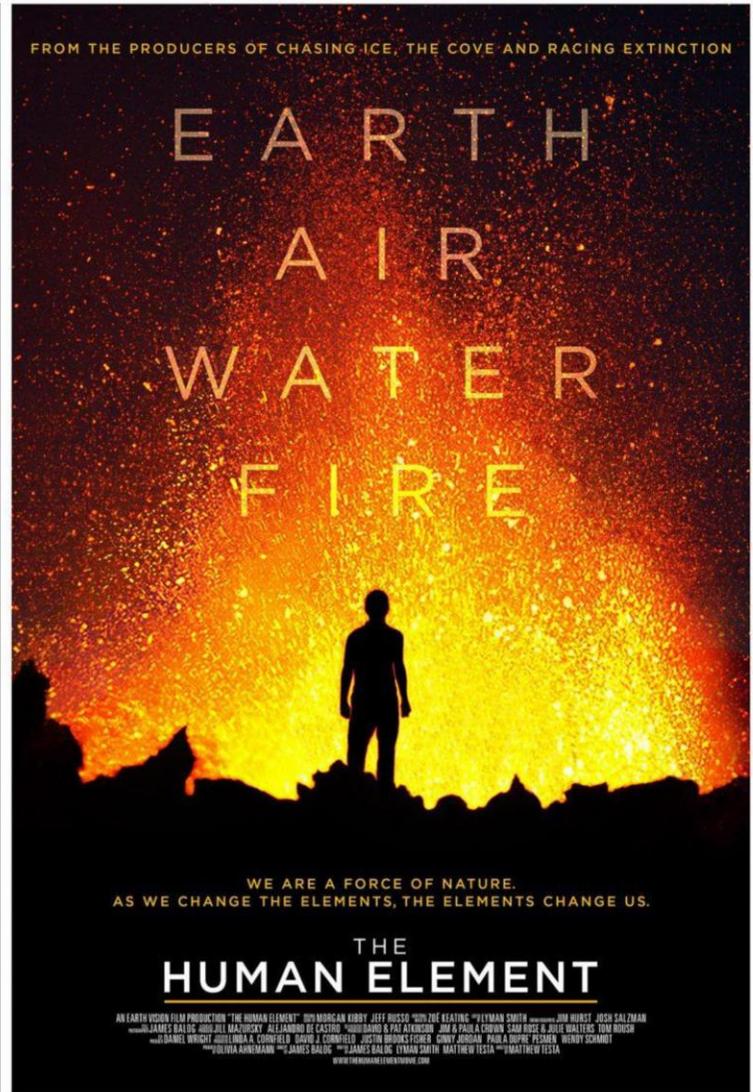
**\$25/person (\$20/student)** includes networking event with light fare and a ticket for a \$5 bar drink or popcorn.

**\$150 Limited Sponsor Tables** includes sponsor table and one (1) person for networking event with light fare and a ticket for a \$5 bar drink or popcorn.

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|----------------------|---|
| <b>5 – 6:45pm</b>    | Networking Event with catering by Pizzeria Locale and Cash Bar! |
| <b>7 – 8:30pm</b>    | Movie Screening   |
| <b>8:30 – 9:30pm</b> | Panel Discussion  |

[HTTPS://COEMS.ORG/EVENTS/](https://coems.org/events/)

[CEMS-MOVIE-NIGHT-THE-HUMAN-ELEMENT-APRIL-21/](https://coems.org/events/)



## SAVE THE DATE

2020 CEMS Annual Scholarship Golf Tournament

June 8, 2020

The Club at Rolling Hills



## COLORADO ENVIRONMENTAL MANAGEMENT SOCIETY 2020 SCHOLARSHIP APPLICATION

The Colorado Environmental Management Society (CEMS) is a non-profit organization (Section 501(c)(06) organization under the IRS code) created in 1985 to provide a forum for the exchange of information concerning technologies, laws and regulations, and other current environmental issues. CEMS membership consists of technical and legal professionals from environmental organizations, government agencies, academia, industry and the private sector.

### MISSION STATEMENT

*To provide a mechanism for professional enhancement of its members with respect to environmental and health and safety (EHS) management. In addition, CEMS seeks to serve government, industry, environmental organizations and individuals in the development and use of prudent EHS management practices in the State of Colorado. It is the intent of the Society to be the premier non-profit professional EHS management organization in Colorado.*

[www.coems.org](http://www.coems.org)

#### A. Eligibility

- Students must be currently enrolled in and physically attending an undergraduate or graduate program at a Colorado university or college.
- Applicants cannot graduate before the end of the 2020 Fall semester.
- Students must be studying engineering, geology, environmental sciences, law, or another field in which they may address environmental issues.
- Students must intend to work in an environmental field.
- Students must complete and return the application as noted below.
- CEMS Officers, CEMS Board of Directors, the CEMS Scholarship Selection Committee, and family members of these individuals are not eligible to receive these scholarships.

#### B. General Information

- CEMS plans to award up to three scholarships(s): One for an undergraduate, one for a graduate (Master's or Doctoral) student and one for a law student. The amount to be awarded in 2020 is up to \$3000 per scholarship. Awardees will be notified on or before March 31, 2020 and will be announced on our website after all awardees have been notified.
- In addition to monetary compensation, awardees selected to receive this scholarship:
  - Will have their essays and biographies published in the CEMS' monthly newsletter.
  - Will receive one-year free membership to CEMS. Awardees and a colleague may attend each monthly meeting at no charge.
  - Awardees must attend one monthly CEMS meeting in the spring/summer of 2020 to be recognized and honored by our membership. Meetings occur from 11:30-1:00 p.m. the second Tuesday of each month at the EPA office in Denver or other downtown Denver locations.
  - Awardees are invited to participate in a poster session at the CEMS Fall Conference in October.

Return completed application via email to: [scholarships@coems.org](mailto:scholarships@coems.org)

***Applications must be received by midnight Mountain Standard Time on Sunday, March 1, 2020.***

Please follow this link for the scholarship application in .pdf and .docx formats:

[CEMS 2020 Scholarship](#)

## *From the Board... The Impact of a CEMS Scholarship by Rachel Blomberg, CDPHE, and CDPHE Liaison to CEMS*

According to a 2017 study by the National Association of Student Financial Aid Administrators, “even after accounting for federal student loans, at least 70% of colleges were unaffordable for lower-income students...” and most colleges were unaffordable for eight out of 10 potential students. As evidenced by the fact that the national student loan debt has surpassed an astronomical \$1.5 trillion, the majority of students must apply for loans to pay for costs not covered by financial aid in order to obtain a college education.

At the local level, the Tuition and Fees Report for Fiscal Year 2018-19 from the Colorado Commission on Higher Education states that over the past five years, tuition and fees for Colorado’s public educational institutions have increased on average 26.1 percent. Last year’s average resident tuition for Colorado’s public four-year colleges reached \$11,140, which does not include the addition of mandatory fees averaging \$2,106, or the cost of books and supplies. Additional costs may include on-campus housing and a meal plan which can bring the financial burden of college to over \$24,000 per year, with some institutions far exceeding the average bill. Exacerbating these financial circumstances, the fields of engineering, science, and law require, at a minimum, a four-year undergraduate degree. More often than not, scientists and engineers also need a master’s or other advanced degree in order to move past basic entry-level positions.

In an effort to bridge this financial gap and help students achieve their academic goals, CEMS offers up to three scholarships annually for students studying engineering, geology, environmental sciences, law, or another environmental field in which they may address environmental issues. The three chosen students’ essays and biographies are published in CEMS’ monthly newsletter, and they receive a one-year CEMS membership. Additionally, this year’s awardees are invited to participate in a poster session at the CEMS Fall Conference in October, 2020, providing a valuable networking and educational opportunity. Potential candidates can find the application instructions [here](#).

The far-reaching impacts of scholarships go well beyond financial assistance. By filling the gap in financial aid, scholarships help pay tuition bills on time and allow students the freedom to not have to work during the semester. If students are not worried about tuition payments and do not need employment while in college, they may focus more on their studies, have a better chance of graduating on time, and pursue unpaid internship opportunities meaningful to their future growth.

(Continued on page 8)

### **2020 CEMS Officers:**

**President:** Brian LaFlamme, Ensero Solutions (303)570-7703, [BLaFlamme@Ensero.com](mailto:BLaFlamme@Ensero.com)

**Vice-President:** Erik Gessert, PE, Terracon Consultants, Inc. (303)454-5277, [erik.gessert@terracon.com](mailto:erik.gessert@terracon.com)

**Secretary:** Noreen Okubo, [noreen.okubo@gmail.com](mailto:noreen.okubo@gmail.com)

**Treasurer:** John Fontana, Vista GeoScience, (303)277-1694, [jfontana@vistageoscience.com](mailto:jfontana@vistageoscience.com)

**Past President:** Steve Brauner, PhD, PE, Environmental Works, Inc., (303)328-7982, [sbrauner@environmentalworks.com](mailto:sbrauner@environmentalworks.com)

**CDPHE Liaison:** Fonda Apostolopoulos, CDPHE, (303)692-3411, [fonda.apostolopoulos@state.co.us](mailto:fonda.apostolopoulos@state.co.us)

**Alternate CDPHE Liason:** Rachel Blomberg, CDPHE, (303)691-4024, [rachel.blomberg@state.co.us](mailto:rachel.blomberg@state.co.us)

**US EPA Liaison:** Stephen Dymont, US EPA Region 8, (303)312-7044, [dymont.stephen@epa.gov](mailto:dymont.stephen@epa.gov)

**OPS Liaison:** Rob Herbert, CDLE; Division of Oil and Public Safety, (303)318-8543, [robert.herbert@state.co.us](mailto:robert.herbert@state.co.us)

### **Board Members:**

Fonda Apostolopoulos, CDPHE, (303)692-3411, [fonda.apostolopoulos@state.co.us](mailto:fonda.apostolopoulos@state.co.us)

Suzanne Gabriele, Geosyntec Consultants, (303)790-1340, [SGabriele@Geosyntec.com](mailto:SGabriele@Geosyntec.com)

Andy Horn, Westwater Hydrology LLC, (303)456-1981, [Andy@WestwaterHydro.com](mailto:Andy@WestwaterHydro.com)

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Evan Singleton, Gablehouse Granberg, LLC, (303)572-0050, [esingleton@gcgllc.com](mailto:esingleton@gcgllc.com)

### **Committee Chairpersons:**

#### **Monthly Programs:**

Andy Horn, Westwater Hydrology LLC, (303)456-1981, [Andy@WestwaterHydro.com](mailto:Andy@WestwaterHydro.com)

#### **Spring Movie Event:**

Monica Genadio, Environmental Science Partners, LLC, (720)936-1694, [mgenadio@gmail.com](mailto:mgenadio@gmail.com)

#### **Fall Conference Co-Chairs:**

Suzanne Gabriele, Geosyntec Consultants, (303)790-1340, [SGabriele@Geosyntec.com](mailto:SGabriele@Geosyntec.com)

Michael Whelan, Anchor QEA, LLC, (303)952-4850, [mwhelan@anchorqea.com](mailto:mwhelan@anchorqea.com)

#### **Golf:**

Mike Jahn, Tasman Geosciences, Inc., (303)487-1228, [mjahn@tasman-geo.com](mailto:mjahn@tasman-geo.com)

#### **Scholarship – Co-Chairs:**

Fonda Apostolopoulos, CDPHE, (303)692-3411, [fonda.apostolopoulos@state.co.us](mailto:fonda.apostolopoulos@state.co.us)

Rachel Blomberg, CDPHE, (303)691-4024, [rachel.blomberg@state.co.us](mailto:rachel.blomberg@state.co.us)

**Website:** Juliana Reid, CEMS, [admin@coems.org](mailto:admin@coems.org)

## Products and Services



COLORADO ENVIRONMENTAL  
MANAGEMENT SOCIETY

*ENGINEERING, SCIENTIFIC, & LEGAL PROFESSIONALS*

Advertise Your Business Here!  
Please contact [admin@coems.org](mailto:admin@coems.org)  
for pricing details.

For information on listing products and services in the CEMS newsletter, please contact CEMS at (303)674-9752 or [admin@coems.org](mailto:admin@coems.org).

### Looking for a New Position

CEMS posts many job opportunities on our website.

<http://www.coems.org/jobs>

If you or your company would like to post to our website, please just send over the job description, with contact information to [admin@coems.org](mailto:admin@coems.org).

We also will post resumes for our members to help you find new opportunities.

### CEMS Meeting Sponsorships

Sponsors for a CEMS lunch meeting are provided a table where brochures or other materials can be displayed. The cost to sponsor a CEMS meeting is \$30 for members and \$85 for non-members. The non-member rate includes a one-year CEMS individual membership. Please send your request to sponsor a lunch meeting to [admin@coems.org](mailto:admin@coems.org).

### **RECRUIT AND PROFIT!!**

Recruit a **NEW** member for CEMS and get a **box lunch** credit voucher! For each person you persuade to join CEMS, you will be issued a **box lunch** voucher that you can apply to the CEMS fee of your choice, whether it be a luncheon, workshop or your own membership renewal. Note that you cannot take credit for a member's renewal. However, there is **NO LIMIT** to the number of vouchers you can accumulate. Just have the new member put your name on the referral portion of the Membership Application Form. And keep those new members coming!

## **MEMBERSHIP – RENEWALS AND NEW MEMBERS**

A big thank you to all those members who renewed, and welcome to our newest members.

### **New – Individual**

Jack Levy, AECOM

### **Renew – Individual**

Stephen Bain, Welborn Sullivan Meck & Tooley

Mark Bell, Weston Solutions, Inc.

Steven Hash, Arctos Environmental

Greg Ledingham, Washington University of St. Louis

Joseph Middleton, Middleton Environmental Law LLC

Jessica F. Toll, Kinder Morgan, Inc.

### **Renew – Corporate**

#### **City and County of Denver – Denver Animal Shelter**

Alice Nightengale

#### **City and County of Denver – Denver International Airport**

Jeff Arneson

Emanuel Cormos

John Hambright

Janet Kieler

Mark Kunugi

Rick Langlois

Debbie Loya

Scott Morrissey

Kim Ohlson

Keith Pass

Craig Schillinger

Tracy Schilz

Tom Somers

Amanda Sutton

Jerry Williams

Katie Zarachowicz

#### **City and County of Denver – Environmental Quality Division**

Tim Allen

Paul Bedard

Bill Benerman

Christiane Bohn

Janet Burgesser

Zach Clayton

Diane Delillio

Joe Donlon

David Erickson

Lisa Farrell

Steve Gonzales

Stacy Guillaume

Michele Herman

Gene Hook

Peter Kates

Mark Kuhns

Agatha Linger

Rose Maes

Jeanette Maez

Kevin Monaweck

Michael Ogletree

Loriann Phillips

Susan Renaud

Andrew Ross

Gregg Thomas

Brian Tietze

Elise Vinson

Dave Wilmoth

Cali Zimmerman

## **Presentation Opportunities for Upcoming CEMS Meetings**

The CEMS Program Committee is currently searching for "interesting, topical and informative" presentations for our meetings in 2020 and beyond. This is a great opportunity to network with your peers, share information and technology, and become more involved with the environmental community. CEMS is interested in an assortment and variety of topics relevant to environmental and natural resources professionals. Each monthly presentation is roughly 50 minutes, followed by a question and answer period.

**If you or someone you know is interested in presenting at our monthly meetings, or our annual conference, please feel free to contact our Programs Committee Chairperson, Andy Horn at [Andy@WestwaterHydro.com](mailto:Andy@WestwaterHydro.com).**

Comments or suggestions from previous meetings, including the Annual Fall Conference, are also welcome. Let us know if we can publish them in the newsletter or website.

**CEMS REGULATORY UPDATE**  
**FEDERAL AND STATE ACTIONS IMPACTING COLORADO**

**By April D. Hendricks**  
**Burns, Figa & Will, P.C.**  
**February 2020**

On January 21, 2020, the EPA, the Department of Justice, and the State of Colorado [announced](#) a settlement agreement with K.P. Kauffman Company resolving litigation in the federal district court for the District of Colorado concerning the company's alleged violations of the Clean Air Act (CAA) and Colorado's air quality regulations. The complaint against the company specifically asserted that K.P. Kauffman failed to properly minimize volatile organic compound (VOC) emissions from its oil and gas operations in the Denver-Julesburg Basin. These facilities are located in an area that does not meet the National Ambient Air Quality Standards (NAAQS) established under the CAA for ground-level ozone, of which VOCs are a component. Under the settlement agreement, KP Kauffman is required to implement pollution control measures at 67 well production facilities, at an estimated cost of \$2.5 million, in addition to \$1 million in civil penalties. The company's required pollution control measures include improved maintenance practices and the installation and use of infrared cameras and pressure monitors to detect excess emissions. The EPA anticipates that these measures will reduce VOC emissions by almost 500 tons per year.

On February 3, 2020, the Environmental Protection Agency (EPA) published a [notice](#) announcing its interim registration review decision for glyphosate, a pesticide that is routinely used on food crops, including corn, soybeans, cotton, canola, and sugar beets, and for the management of invasive and noxious weeds. Registration review is the EPA's periodic review process for pesticide registrations and is intended to ensure that pesticides continue to satisfy the standards for registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), such that they can perform their intended function without unreasonable adverse impacts on human health or the environment. EPA previously issued its proposed interim registration decision, along with preliminary health and ecological risk assessments, for glyphosate in April 2019. In issuing the current review decision, the EPA did not significantly revise its proposed decision or initial risk assessments, determining that there are no dietary, residential, bystander, or occupational human health risks associated with glyphosate use, and that glyphosate is not likely to be a human carcinogen. The EPA has determined that glyphosate use may have potential risks to plants, birds, mammals, and invertebrates and that these risks can be mitigated appropriately through changes to the product's labeling, including requiring spray drift management measures and adding a warning concerning potential risks to non-target organisms.

On February 12, 2020, the EPA [published](#) its draft inventory of U.S. Greenhouse Gas Emissions and Sinks from 1990-2018 for public review, and the agency has requested recommendations for improving the quality of this inventory report, which will be finalized in April 2020, as well as subsequent inventory reports slated for future publication. This report summarizes, by source and by sector, the annual emissions of various greenhouse gasses, many of which are regulated under the CAA, including carbon dioxide, sulfur dioxide, methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride, and nitrogen trifluoride. The report also calculates carbon dioxide removal from the atmosphere by "sinks," which include the uptake of carbon and storage in vegetation and soils. The goal of this annually published report is to provide a comprehensive accounting of total greenhouse gas emissions for all man-made sources in the United States, and the report is also provided to the United Nations in accordance with the Framework Convention on Climate Change. Comments regarding the contents of this report will be accepted through March 13, 2020.

**Are you a lawyer, looking for CLE's? Is someone at your office in need of CLE's? CEMS offers a very inexpensive way to earn those needed CLE's. Just RSVP to [admin@coems.org](mailto:admin@coems.org), bring your box lunch, and attend for free.**

**From the Board** *(continued from page 4)*

Additionally, scholarships allow students of all socioeconomic backgrounds the opportunity to attain a rigorous education. Combined, these factors help position a student for success in securing a rewarding career upon graduation.

Previous CEMS winners have experienced the rewarding impacts of scholarships, and have expressed how the aid from the CEMS scholarship has motivated them to seek advanced degrees and affirmed their desire to contribute to an environmental field. Because of an unexpected increase in tuition, one winner's student loans didn't cover the difference as they usually had in the past. In her words:

“This scholarship completely saved the day, ensuring I was able to graduate with my Bachelor's in Environmental Engineering on time this past December. I wish I knew how to express just how incredibly grateful and thankful I am to CEMS for that, truly.”

Another recipient attests:

“Receiving the CEMS scholarship gave me the financial flexibility to choose an unpaid internship at an environmental organization last summer. The projects I worked on and experience I gained in environmental law were incredibly valuable to my personal and professional development. The financial ability to take that opportunity was a privilege. As I look for post-graduate employment, I continue to feel the impact of that experience and CEMS' financial support.”

To these students, the CEMS scholarship was critical for their continued development into environmental professionals. By adding educated and passionate environmental scientists, engineers and lawyers to the workforce, the return on investment of this scholarship is evident. Active membership from the CEMS community as well as the revenue generated from CEMS events such as our annual golf tournament continue to make these opportunities possible. To get in touch or learn about opportunities to help support CEMS programs such as the annual scholarship, please visit [coems.org](http://coems.org).

*Rachel Blomberg, E.I., is a hydrologist and project manager for the Colorado Department of Public Health and Environment (CDPHE) in the Hazardous Materials and Waste Management Division Remediation Program. She has been employed by CDPHE since 2017, and worked for the USGS in the Colorado Water Science Center before joining the State. Rachel's primary duties range from asbestos mitigation to contaminated groundwater remediation on active military bases and formerly used defense sites. Rachel also addresses emerging contaminants and was involved in drafting the site-specific groundwater standard for PFOA and PFOS.*

*Rachel earned a BS from Cornell University and a MS from Colorado School of Mines. Originally from Northern California, she has lived in NY, AK, ME, Denmark and finally Colorado. She, her boyfriend, and their bulldog are renovating their 110-year-old home in Denver. When they take time off from the house, they are most likely snow shoeing, backpacking or fishing in the mountains.*