



1st CLEAN Review Camp

Boulder July 26 – July 28, 2010

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1) To do list – before review camp

- Become an expert on the 6 activities that you were assigned – use the guidelines for presenters (see attached copy and CLEAN review camp website). Please read all the previous reviews, description and annotation (everything can be found in Step 10 of our review tool – if you have trouble accessing it, contact Anne Gold for help).
- Become familiar with the activities the other members of your group will be presenting (if you don't have enough time to read through all activities before you come to Boulder, please make sure that you come every day prepared for the activities that will be covered during this day **plus the first two activities of the next day**).
- Read through the guideline of how to write annotations (see attached copy and CLEAN review camp website).
- Be somewhat familiar with the Essential Principles of Climate Literacy and Principles of Energy Awareness (see attached copy and CLEAN review camp website).
- Make sure that you can access the review tool at:
http://cleanet.org/admin/review/process_overview.php?process_id=1 (You will be asked to log in. If you don't have an account created yet – use your email that has been used to contact you in CLEAN matters to create an account – follow button on right side of page.)
- Familiarize yourself with Step 10 of the review tool (if you have trouble accessing it, contact Anne Gold for help).
- Please bring your laptop to the meeting.

2) CLEAN review camp webpage and review tool

You can find all relevant documents and important information for this review camp on the CLEAN review webpage:

CLEAN review camp webpage: http://serc.carleton.edu/clean/about/2010_camp/index.html

CLEAN review tool: http://cleanet.org/admin/review/process_overview.php?process_id=1

On the CLEAN review camp webpage you can find all supporting materials (document section), organizational information, review assignments, etc.

3) Finalized agenda for review camp

We will start promptly on Monday July 26 at 1 pm. We will **not** provide lunch the first workshop day but there will be afternoon refreshments, so please have lunch before the start of the meeting.

We will have lunches for Tuesday and Wednesday (each day there will be a vegetarian option) as well as coffee, refreshments and snacks in the morning and afternoon.

Monday, July 26th 2010 (1.00 pm – 6.00 pm)

Time	Agenda	Facilitator	Location
9-11.30 am	Option for NREL Tour in Golden – only people that are signed up can go because of security issues (meeting at 8.15 am in hotel lobby of Boulder Inn)		Golden
10.00-12.00	PI group meeting		Fellows Room (Ekeley S274)
12.30 -1.00	Briefing of facilitators	Susan Buhr	Fellows Room
1.00– 1.30	Welcome notes and short introduction of each participant (plenary)	Tamara Ledley, Susan Buhr, Mark McCaffrey	Fellows Room
1.30-1.45	Brief intro to procedure of workshop plus presentation of one high quality activity to define measure bar (plenary)	Anne Gold	Fellows Room
1.45-2.00	Setting group expectations (plenary)	Susan Buhr	Fellows Room
2.00	Coffee is available – no break yet		Fellows Room
2.00-3.30	Review session 1-1 (breakout groups)		Breakout group rooms
3.30-3.45	Coffee break		Fellows Room
3:45-4.15	Feedback from first round, discussion of problems (plenary)	Tamara Ledley	Fellows Room
4.15-5.00	Review session 1-2 (breakout groups)		Breakout group rooms
5.00 – 5.30	Finalizing annotations for reviews of the day (breakout groups)		Breakout group rooms
5.30-6.00	Debriefing for everyone and completion of 1 st evaluation survey (plenary)	Susan Buhr, Susan Lynds	Fellows Room
6.15	Minivans will be ready to transport people directly to Chautauqua Dining Hall (no stop at hotel)		
6.30	Arriving at Chautauqua Dining Hall – drinks (cash bar)		
7.00	Buffet dinner starts		
8.00	PI and facilitator meeting review of first day		

Tuesday, July 27th 2010 (8.00 am – 6.00 pm)

Time	Agenda	Facilitator	Rooms
7.30-8.00	PI and facilitator meeting		Fellows Room
8.00-8.30	Overview of and setting expectations for 2 nd day (plenary)	Tamara, Susan Buhr	Fellows Room
8.30-10.30	Review session 2-1 (breakout groups)		Breakout group rooms
10.30-10.45	Coffee break		Fellows Room
10.45-12.00	Review session 2-2 (breakout groups)		Breakout group rooms
12.00-12.45	Lunch		Fellows Room
12.45-1.15	Feedback and time for discussion (plenary)	Anne Gold	Fellows Room
1.15-2.00	Presentations on alignment of Essential Principles and CLEAN resources with Benchmarks of Scientific Literacy and Guidelines for Excellence, and on the strandmaps (plenary)	Ted Willard, Bora Simmons	Fellows Room
2.00 – 2.30	Feedback and time for discussion (plenary)	Mark McCaffrey	Fellows Room
2.00	Coffee is available – no break yet		Fellows Room
2.30-3.45	Review session 2-3 (breakout groups)		Breakout group rooms
3.45-4.00	Coffee break		Fellows Room
4.00-5.15	Review session 2-4 (breakout groups)		Breakout group rooms
5.15 – 5.45	Finalizing annotations for reviews of the day (breakout groups)		Breakout group rooms
5.45 – 6.00	Debriefing for everyone and completion of 2 nd evaluation survey (plenary)	Susan Buhr, Susan Lynds	Fellows Room
6.15 – 6.45	PI and facilitator review of second day		Fellows Room

Wednesday, July 28th 2010 (8.00-5.30 pm)

Time	Agenda	Facilitator	Rooms
7.30-8.00	PI/Facilitator Meeting to prepare day		Fellows Room
8.00-8.15	Overview of and setting expectations for 3 rd day (plenary)	Tamara Ledley	Fellows Room
8.15-10.30	Review session 3-1 (breakout groups)		Breakout groups
10.30-10.45	Coffee break		Fellows Room
10.45-11.15	Discussion of CLEAN Pathway Portal mockup (plenary)	Sean Fox	Fellows Room

11.15-12.30	Review session 3-2 (breakout groups)		Breakout group rooms
12.30-1.15	Lunch		Fellows Room
1.15-2.00	Discussion on vocabulary framework and testing framework on a few activities (plenary)	Karin Kirk	Fellows Room
2.00	Coffee is available – no break yet		Fellows Room
2.00-3.45	Review session 3-3 (breakout groups)		Breakout group rooms
3.45-4.00	Coffee break		Fellows Room
4.00-4.30	Finalizing annotations for reviews of the day (breakout groups)		Breakout group rooms
4.30-5.00	Feedback on review camp, Outlook, final survey (plenary)	Susan Buhr, Susan Lynds	Fellows Room
5.00-5.30	Grande Finale (plenary)	Tamara Ledley, Susan Buhr, Mark McCaffrey, Anne Gold	Fellows Room
5.30 – 6.00	PI and facilitator review of last day		

4) Group assignment and Step 10 in review tool

You can find your group assignments of activities on the CLEAN website:

http://serc.carleton.edu/clean/about/2010_camp/review_teams.html

If you click on the ID Number (red circle in screenshot below) next to the title of the activity you will be directed to Step 10 in the review tool (the step that contains all the previous reviews as well as the annotations; this will be used as a basis for our work in Boulder).

The URL that is listed below the title will direct you to the activity itself that you should be familiar with.

The name of the presenter for each activity is listed in bold to the right of the title.

▼ Hide

Time per review: Average of 35 min.. (may vary between 20 and 40 min. depending on resource)
 Click on the resource number to go to Step 10 of the Review Form.
 The presenter is given in **bold**.

225 Global Climate Change: The Effects of Global Warming (**Tamara**)
http://www.teachersdomain.org/resource/ess05.sci.ess.watcyc.lp_global2/
 Prior Review Results: High High

211 Equity and Climate (**Chris**)
<http://www2.earthday.net/pdf/Equity%20and%20Climate.pdf>
 Prior Review Results: High High

372 Tropical Atlantic Aerosols (**Kim**)
http://mynasadata.larc.nasa.gov/preview_lesson.php?&passid=56
 Prior Review Results: Medium High

520 Global Climate Change and Sea Level Rise (**Cynthia**)
<http://www.calacademy.org/teachers/resources/lessons/global-climate-change-and-sea-level-rise/>
 Prior Review Results: Medium Medium

► Show Reviews for Tuesday 7/27
 ► Show Reviews for Wednesday 7/28

Review Team 2

Susan Buhr - facilitator
 Marian Grogan – notetaker coordinator
 Bora Simmons
 Frank Niepold

► Show Reviews for Monday 7/26

How to access the previous reviews in Step 10:

If you click on the ID number next to the activity that you want to get familiar with (see information above) you will be directed to Step 10 in the review tool. In the screenshot of Step 10 below you can see the different parts that are relevant to you.

At the top the title of the activity is displayed, in the next line you can see the ID number in small font at the left and the URL that takes you to the activity in larger font (click on the “view in new window” to access the activity).

The status box of all activities is still red and will turn green once you have reviewed it and changed the status to pass/fail during the camp.

The “Show Past Reviews” Hide-Function allows you to access all the summaries of reviews that have been done previously. You will see the summary of the reviews and once you click on each review line the full review will be displayed.

Scroll down the page to access the draft description and annotation.

The screenshot shows the 'CLEAN Pathway Review' interface. Annotations with yellow boxes and arrows point to specific parts of the page:

- Titel**: Points to the title 'CLEAN Pathway Review'.
- URL**: Points to the URL 'http://www.clarkson.edu/highschool/k12/project/energychoicesgame.html'.
- Status box**: Points to the 'Current State: Not Yet Reviewed' status.
- List of previous reviews**: Points to the list of reviews including 'Initial Vetting: Anne Gold', 'First Review: Anne Gold', 'Second Review: Marian Grogan', and 'Science Review: Karin Kirk'.
- Draft of description/ annotations**: Points to the draft description text: 'The game is used to introduce the concepts of energy use in our lives and the very real impact that personal choices can have on our energy consumption, energy bills, and fuel supply.'

The interface includes a breadcrumb trail: 'All Review Items > http://www.clarkson.edu/highschool/k12/project/energychoicesgame.html > Step 10'. The title is 'Clarkson Energy Choices Board Game'. The URL is 'http://www.clarkson.edu/highschool/k12/project/energychoicesgame.html'. The status is 'Step 10- Review Camp' and 'Outcomes of the review camp are recorded here'. The current state is 'Not Yet Reviewed'. The list of previous reviews includes: 'Initial Vetting: Anne Gold', 'First Review: Anne Gold' (passed_review: High Priority 132:3 end scientific_rating: 2-minor-problems pedagogic_rating: 4-excellent), 'Second Review: Marian Grogan' (passed_review: High Priority 145:1 end reviewer_comments: (description) The game is that personal choices can have on our energy consumption, energy bills, and fuel supply. (teaching tips) Can be played at home or in the classroom. scientific_rating: 0-can-not-answer pedagogic_rating: 4-excellent technical_rating: 4-excellent ease_of_use_rating: 4-excellent), and 'Science Review: Karin Kirk' (reviewer_name: Bob Ford scientific_rating: Passed Scientist Review with minor problems). The draft description is: 'The game is used to introduce the concepts of energy use in our lives and the very real impact that personal choices can have on our energy consumption, energy bills, and fuel supply.'

5) Travel information (Denver International Airport – Boulder)

The weather forecast for the days of the review camp looks pretty warm (80-90s) but there is always a chance for thunderstorms. Please bring layers, rain jacket, and comfortable shoes for walking from the hotel and around campus.

The building that we will be having our meeting is air-conditioned. Please bring a sweater in case you get cold in AC-rooms.

We are located at altitude (5460 feet) here – be aware that exercise will feel more difficult if you are not used to the altitude.

There are a few options for you to come to Boulder from the airport in Denver:

1. Boulder Super Shuttle Service

Upon arriving at DIA the Boulder Super Shuttle will take you directly to many of Boulder's accommodation hotels. Go to the "Boulder Super Shuttle" counter on the baggage claim level of the Main Terminal to purchase a round trip ticket. A shuttle leaves DIA hourly at 10 minutes after the hour. The trip takes about 1.25 to 1.5 hours, sometimes a bit more, especially if it is rush hour. The cost for a one-way ticket is \$25 for drop-off at the Boulder Inn. The return trip pick up will require that you call the shuttle company and make a return reservation. You may be able to make this reservation when you pick up your ticket upon arrival.

Boulder Super Shuttle phone is 303-227-0000

Website for more information:

http://www.yellowtrans.com/supershuttle/boulder_supershuttle_DIA%20Denver.htm

2. RTD Bus

RTD operates a bus from DIA to Boulder (Route AB) that makes several convenient stops in Boulder. Buses leave approximately every 60 minutes from the airport. The schedule can be found on RTD's website (select route AB). Tickets are paid directly to the driver upon boarding the bus – cash and exact change only. This is a more economical option, with one-way tickets costing \$10. RTD has an information booth on the baggage claim level of the Main Terminal, right next to the Boulder Super Shuttle counter. The trip takes approximately 1.5 hours. You will have to get off at Broadway and 27th Street and then it's about a 0.7 mile walk to the hotel (print out a map if you want to do this). **Taxis are almost impossible to find in Boulder!**

Website for more information and schedules: www.rtd-denver.com

3. Driving to Boulder:

From a rental car location you have several choices for car travel. Rental facilities will give you a map and directions.

Express way – Pena Boulevard to Tower Road, turn left and exit onto ramp for I-70 going west. Take I-70 to I-25 going north. On I-25 follow the signs going to Boulder on Highway 36, which will take you to the east side of Boulder. While this is longer in miles, if no traffic, it is easy.

Local roads – Pena Boulevard to Tower road exit, go north. Turn left on 104th street going west, many miles. Turn right on to Highway 36 going to Boulder, which will bring you to the east side of Boulder. This is the most direct route and at no additional fee.

Toll way – Pena Boulevard to E-470 north. E-470 merges with Northwest Parkway ending on a highway into Flatirons Mall. Take the exit to highway 36 into Boulder, going west on 36, which goes directly into east Boulder. This is the quickest & shortest, but costs three tolls of \$2.00 each.2)

6) Hotel information – Boulder Inn & Meeting Location – CIRE Building, University of Colorado at Boulder

Hotel:

Rooms are reserved in the Best Western – Boulder Inn

<http://www.boulderinn.com/> (770 28th Street, Boulder, 303-449-3800)

CLEAN review camp will take place in the main CIRES building on the UCB – Main Campus located at Euclid Ave. and Broadway in Boulder. The building is called Ekeley Science (on map below building # 23 located at F-5). We will meet on the second floor of the Ekeley Building in the so-called “Fellows Room” (room number S274)

How to get to the Fellows Room (S274)?

Colorado
University of Colorado at Boulder
Main Campus

CIREs Building

Parking Lot

Boulder Inn Hotel

East Campus

Research Park

Williams Village

Kitteridge Complex

Legend

- Streets having main campus streets are limited access during certain hours
- Limited access streets
- Major buildings
- Housing (residence halls and family housing)
- Pedestrian/bicycle underpass
- Visitor parking lots
- Creeks and ponds
- Emergency telephones
- RTD bus stops bordering campus

8) Info: Dinner Monday night – Chautauqua

We have organized a CLEAN – dinner for all participants of the review camp on Monday night (7/26). There will be a shuttle available to bring you all to dinner. The **shuttle will pick all participants up at 6.15 pm from the University Campus**. There is **NO** time to go to your hotel between the meeting and dinner. You will be dropped off at your hotel after dinner.

There will be a concert that night at the Chautauqua Park; therefore, parking will be very limited and you will probably have to park in a neighborhood north of Baseline Road if you are planning on driving yourself instead of taking the shuttle bus.

The dining hall is just west of the concert auditorium.

Chautauqua Dining Hall - Phone: 303 440 3776

900 Baseline Rd

Boulder, Colorado 80302

In Chautauqua Park



9) Info: Optional NREL tour

The following people have signed up for the NREL tour on Monday morning:

Marian, Jeff, Scott, Cheryl, Ted, Arnold, Rusty, Laura, Lora

NREL has two more spots available on this tour but they need your information by Thursday July 22 (COB) in order to fill out the security paperwork that is required to visit NREL. Please email Anne if you want to attend.

You will be picked up by Emily Morton (colleague from CIRES Education and Outreach group) at your Hotel (the Boulder Inn) at 8.15 am on Monday 7/26. The NREL tour starts at 9 am and lasts until 11.30 am. You will be back in Boulder about 30-40 min after the end of the tour.

Emily's cell phone number is 303-775-8759.

The time between your return and the start of the meeting at 1 pm will be fairly short. Please choose a quick option for your lunch and make sure that you account for the 10-15 min walk from your hotel to the meeting location on campus.

Your guide will be Jim Bosch – if there is any trouble with coordinating to meet up with him call him on the number that is listed below.

Directions to the NREL Visitors Center

From: Boulder, CO **To:** NREL Visitors Center (15013 Denver West Parkway, Golden, CO 80401, 303-275-3000)

To reach NREL from Boulder, take CO-93 south for approximately 10 miles. CO-93 will turn into US-6 east. Stay on US-6 east for approximately an additional 3 miles.

Then turn left onto Colfax Ave. (Highway 40). Proceed along Colfax Ave. for 2 miles and then turn left onto Denver West Marriott Blvd.

Proceed along Denver West Marriott Blvd. to the third set of stoplights, and turn left onto Denver West Parkway.

Continue straight after the stop sign for approximately ¼ mile to the Visitors Center, which is the first building on your right after NREL's welcome sign.

Questions? Please call Sarah Barba at 303-275-3023 or 720-339-9006 (cell) or Jim Bosch at 303-384-6567 or 303-585-0475 (cell)

NREL Regional Map

(South Table Mountain Site is the Location of NREL Visitors Center)



Site Map

(Showing NREL Visitors Center)



10) Support Contact info and Participant List

In case you need to contact anyone here are the important phone numbers – please only use for important issues:

CLEAN role	Name	Phone	Email Address	Affiliation
Support	Tina Arthur	720-261-3078	tarthur@colorado.edu	CIRES Education and Outreach, Boulder
Support	Sam Massey	303-903-6379	samanthamassey@live.com	CIRES, Boulder
Support	Sanket Merchant	303-720-9828	sanket.merchant@colorado.edu	CIRES, Boulder

CLEAN role	Name	Phone	Email Address	Affiliation
PI/coPI	Tamara Ledley	617-803-7152	tamara_ledley@terc.edu	TERC, Cambridge
PI/coPI	Susan Buhr	303-868-3488	Susan.Buhr@Colorado.EDU	CIRES Education and Outreach, Boulder
PI/coPI	Frank Niepold	240-429-0038	frank.niepold@noaa.gov	NOAA, Climate Programm Office
PI/coPI	Mark McCaffrey	303.665.0206	Mark.Mccaffrey@Colorado.EDU	CIRES Education and Outreach, Boulder
PI/coPI	Sean Fox	507-581-0948	sfox@carleton.edu	SERC, Carleton College
PI/coPI	Cynthia Howell	303-882-7368	cynthia.howell@nrel.gov	NREL, Golden
Evaluator	Susan Lynds	303-589-0193	susan.lynds@colorado.edu	CIRES Education and Outreach, Boulder
Evaluator	Jenn Helms		jhelms@inverness-research.org	Inverness Research, Denver
RC	Scott Carley	206 323-0393	scarley@coexploration.net	College of Exploration, Seattle
RC	Anne Gold	303-562-4027	anne.u.gold@colorado.edu	CIRES Education and Outreach, Boulder
RC	Marian Grogan	617-873-9817	marian_grogan@terc.edu	TERC, Cambridge
RC	Karen Kirk	310-890-8982	kkirk@carleton.edu	SERC, Carleton College
RC	Jeff Lockwood	207-353-3190	jeff_lockwood@terc.edu	TERC, Cambridge
RC	Chris Comer	512-695-1957	chris_comer@terc.edu	TERC, Cambridge
RC	Kristin Record	203 913-9936	gophysics@yahoo.com	Stratford High School, CT
RC	Richard Shin	303-882-2692	globalspecialtydesign@walla.com	Consultant
Reviewer	Arnold Bloom	530-400-4099	ajbloom@ucdavis.edu	UC Davis
Reviewer	Laura Faye Tenenbaum	818-354-1226	Laura.F.Tenenbaum@jpl.nasa.gov	NASA JPL
Reviewer	Lora Kaisler	563-940-7520	lkaisler@eicc.edu	ATEEC, Scott Community College
Reviewer	Rusty Low	303-442-1196	rustylow@me.com	NASA Consultant, Boulder
Reviewer	Cheryl Manning	303-905-0007	cmanning@jeffco.k12.co.us	Jefferson County School District, CO
Reviewer	Jean Pennycook	559-696-8998	Jean.Pennycook@fresnounifed.org	Fresno Unified School District, CA
Reviewer	Bora Simmons	(541) 343-0714	borasimmons@gmail.com	National Project for Excellence in Environmental Education, Eugene
Reviewer	Kim Trenbeth	202-246-1798	Kim.Trenbeth@Colorado.EDU	University of Colorado, Boulder
Reviewer	Amy Wagner	303-497-4327	amy.wagner@noaa.gov	NOAA, Boulder
Reviewer	Ted Willard	202-326-6778	twillard@aaas.org	AAAS, Washington D.C.
	Eileen McIlvain		eileen@ucar.edu	NSDL, Boulder