CHANGING BEHAVIOR AND ENGAGING SCIENTISTS AT CU BOULDER USING COMMUNITY-BASED SOCIAL MARKETING* STRATEGIES

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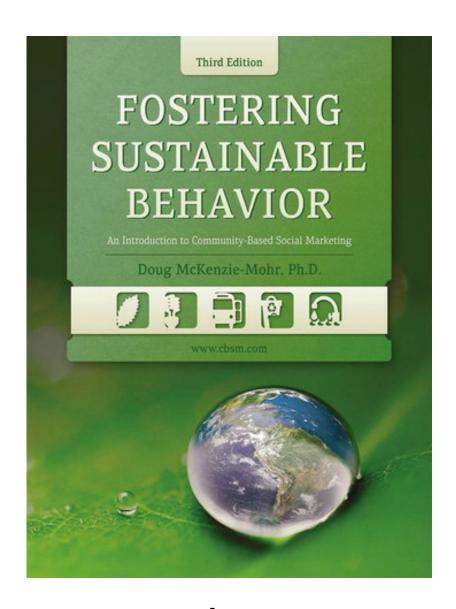


^{*} CBSM is a system of promoting behavior change developed by Dr. Doug McKenzie-Mohr

BACKGROUND



Dr. Doug McKenzie-Mohr



WHAT IS CBSM?

- An approach to promoting behavior change based on research in social psychology. Can be effectively used for behaviors related to:
 - Sustainability
 - Health
 - Safety & Injury Prevention
- Identifies barriers to behavior change before applying strategies to promote lasting change

WHAT CBSM IS NOT

- It's not
 - a social media campaign
 - Information-Based Campaigns (Attitude-Behavior Approach)
 - Economic Self-Interest Approaches



- Studies indicate that these strategies are not enough to change behavior
- Virtually no link between attitudes/knowledge and behavior
- Why doesn't this work?

BARRIERS TO CHANGE AREN'T CONSIDERED

COMMUNITY BASED SOCIAL MARKETING

Select Behaviors

1

Uncover
Barriers &
Benefits

2

 Develop Strategies



3

Pilot Strategies

4

Implement Broadly & Evaluate

5

STRATEGY: PROMPTS

 Sometimes people don't do sustainable behaviors not because they don't care or lack motivation, it is that they forget.

- General prompts rarely have impact the suggested behavior must be specific!
- Must be delivered in close proximity of time and space with the behavior in order to be effective.

Particularly useful for repetitive behaviors because more impact

STRATEGY: PROMPTS



CU Green Labs Refrigerator & Freezer Maintenance Program Checklist

Manual Defrost -20°C Freezer or Manual Defrost Refrigerator/Freezer



Door sealing tightly and free of frost? – Brush frost frequently! IMPORTANT!

- · A good seal is so important for keeping warm air outside of your freezer for both the benefit of energy efficiency and unit performance.
- Frost and ice build-up can damage gaskets leading to expensive repairs.
- Keep gaskets free of frost and ice by brushing frost off your gasket frequently while it is easy
- · Close the door on a piece of paper. If the paper falls, the gasket is not sealing well.



Too much frost?

• Is there more than a 1/2 inch of frost in a number of places in the freezer? If so, it's time to defrost your freezer.



No objects blocking air flow? IMPORTANT!

- · Remove items that have fallen behind or are pushed up against your unit blocking air flow underneath, on the sides, or above your unit. Be especially careful not to block air intake or exhaust grills.
- · It is important that the freezer has good air flow for freezer performance and energy efficiency.



Coils clean (if accessible)? If your unit has exposed coils on the back, top or underneath, then:

- · Look for dust on coils.
- Dirty coils increase energy consumption by preventing effective heat dissipation.

*ruler modified from those in use at UC Davis, developed by Allen Doyle ** Shut the Sash "hand" sticker modified from the University of Toronto

STRATEGY: COMMITMENT

- Individuals that agree to a small, innocuous request are more likely to agree to a much larger request later
- Why is this? Making a commitment changes the way we perceive ourselves. As humans, we want to behave consistently. Consistency is a highly valued character trait in society.
- Substantial time can pass between the first and second request to make a commitment, and the second request can be made by a different person.
- This means that the first request changes how we perceive ourselves in a lasting, durable way.

STRATEGY: COMMITMENT



- Ask labs to make a written commitment (more effective than verbal)
- Make the commitment public & durable
 - Advertised on doors of participating labs
 - On Green Labs outreach posters
 - o On Green Labs website
 - Building TV displays
- Commitments must be voluntary
- Easily combined with other behavior change techniques

STRATEGY: SOCIAL NORMING (Building community support)

- Normalizing sustainable behaviors in society
- Other people have an important role and influence on our own behavior
- Make the norm noticeable.
- Present norms at the time a targeted behavior should occur.
- Use norms to encourage positive behavior
- But be careful!
 - Don't publicize that an undesirable behavior is common!

STRATEGY: SOCIAL NORWING

Labs campus-wide are joining **CU Green Labs!**

YOUR LAB NAME AND DEPARTMENT HERE!

Does your lab have an Eco-Leader?

If not, get involved today! Sign up to be an Eco-Leader for your lab or department! For more information, contact Kathy Ramirez below.

Let's work together...

to green campus labs and push for energy efficient, environmentally friendly products from manufacturers.

Your decisions and dollars have impact!

CU Green Labs Contact:









Labs Taking Action With ULT* FREEZERS! MMMMM Combined Electricity Savings for all actions: =750 kWh/day! Same as ~30 houses! MMMMM At CU Boulder... 50% of ULT Freezers are at -70 °C Adams Caruthers Chen Anseth Batey Blumenthal DeSousa Ferguson Dowell Ehringer Fleshne Klymkowsky Han Hernande Jones Junge

Labs Sharing ULT Freezer Space!

Olwin

Linden

Seals

Nemeraut

Ahn	Biochem Teaching Lab		Bourgeois	Detweiler	Dowell	Garcea
Goodrich	Hoenger	Jimenez	Kane	McIntosh	Medieros	Moore
Pardi	Perkins	Schmidt	S. Spencer	Stock	Smith	Safran
Sawyer	Winey	Wuttke	Templeton	Anthropology		

Marks

Pardi

Sievers

Labs That Retired Old ULT Freezers Without Replacement!

Spencer Winey Johnson

Labs Purchasing Energy-Efficient Models!

Blumenthal Falke Fleshner McKenzie

Keeping Secondary Back-Up ULT's Unplugged Until Needed!

MCDB Dept

Kociolek

Schmidt

CU Green Labs Contact

Kathy Ramirez-Aguilar greenlabs@colorado.edu colorado edu/ecenter/greenlabs





Copley

Garcea

McKenzie

R.Spencer van Blerkom

Templeton

Koch

McIntosh

Randolph

Sousa

Martin

Poyton

Smolen



Join these JSCBB labs with good sash etiquette:

· Gill Pardi

David

303-492-8308

· Hough

Anseth

- Sousa
- Randolph
- Weimer
- Bryant
- Leinwand
- · Knight/Dowell

CU Green Labs Contact: Kathy Ramirez greenlabs@colorado.edu ecenter.colorado.edu/gre





Wuttke

Garcea

• Falke

Parker

STRATEGY: SOCIAL DIFFUSION

(Speeding adoption of positive behaviors)

- We are heavily influenced by our social networks: family, friends, coworkers, neighbors
- Get help from those that have already adopted sustainable behaviors to influence those around them (social diffusion)
- Works two ways:
 - More people are asked to change behavior
 - The one doing the asking is more likely to stick with the behavior because they are now asking their social networks to do it too
- Make sure the behavior is **Observable**
- Use in conjunction with other strategies such as commitment

STRATEGY: SOCIAL DIFFUSION

Team Lead Role at CU Boulder





STRATEGY: INCENTIVES

- Useful when an individual's motivation to engage in a particular behavior is low or when cost to do something sustainable is a significant barrier
- From Gardner & Stern's* reference on using incentives to improve engagement in sustainable actions:
 - Consider incentive size carefully
 - > Pair the incentive & behavior, ideally present at same time
 - Incentive should be visible
 - Reward positive behavior
 - > Be cautious about removing an incentive that is already in place

^{*} Gardner, G.T. & Stern, P.C. (1996). "Environmental Problems and Human Behavior." Boston: Allyn and Bacon.

STRATEGY: INCENTIVES



Stickers on equipment purchased with financial incentives from our Facilities

Management group



Waterless condensers



Free equipment timers

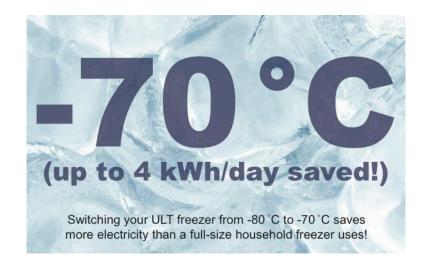


STRATEGY: INCENTIVES



For info on samples that labs are storing at -70° C or warmer go to ecenter.colorado.edu/greenlabs

CU Green Labs Contact: Kathy Ramirez greenlabs@colorado.edu



Vivid communication strategy; easy to remember

"Increasing the temperature means the compressor does not have to work as hard. Since the compressor works less, there is reduce risk for compressor failure."

Social Norming!



STRATEGY: HIGH QUALITY COMMUNICATION & EFFECTIVE PERSUASION

- VIVID
- CONCRETE
- PERSONAL

- Know your audience
- Reference credible sources and work with credible groups
- Make message easy to remember
- Provide personal or community goals

EFFECTIVE COMMUNICATION







COMBINING STRATEGIES

MAKE IT CONVENIENT TO ADOPT SUSTAINABLE BEHAVIORS

IN SUMMARY

- I am not an expert on applying CBSM to sustainability
- CBSM is a great framework to use to promote more sustainable behaviors at your campus or institution
- Also gives interesting insight into human behavior/psychology
- Lots more information available online and through the free 3rd edition of Fostering Sustainable Behavior by Doug McKenzie-Mohr

NEXT STEPS

Enhancement of Eco Leader Program



ACKNOWLEDGMENTS



QUESTIONS?



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