

COLORADO

# CAFÉ SCIENTIFIQUE

TUESDAY 21 FEBRUARY 2006

at the Wynkoop Brewing Company

<http://www.wynkoop.com/>

Corner of 18<sup>th</sup> and Wynkoop in LoDo, Denver

About a block from Light Rail. Thirteen minutes by foot from Auraria.

**MICROORGANISMS RULE THE WORLD. DEAL WITH IT  
WEIRD BACTERIA THAT LIVE IN WATER THAT WOULD DISSOLVE A DUCK**

**Timberley Roane, Biology,  
University of Colorado at Denver and Health Sciences Center**

Timberley Roane received her Ph.D. from the University of Arizona's Soil, Water and Environmental Sciences program. She initially fell in love with toxic waste and microorganisms while working at a sewage treatment plant in Davis, CA, as an undergraduate student at the University of California. When she realized that microorganisms alone can turn human sewage into clean water, she thought to herself "Bacteria can save the world!" and has since dedicated herself to the pursuit of "superbacteria" capable of degrading and detoxifying toxic waste. You find these, of course, *in* toxic waste, and the more toxic the better. It's been said that Timberley has never seen a seepage she didn't like. Her research focuses on the response of bacteria to toxic chemicals, such as heavy metals and pesticides. Working in exotic locations, including acid mine pits, industrial waste streams, and, of course, sewage treatment plants, Timberley studies the bacteria that can detoxify chemicals in order to protect us and the environment.

***EVERYONE IS WELCOME.* The discussion starts at 6:30 in the Mercantile Room (no food service there). Come before 6 PM to leave yourself time to get something to eat, or stay and eat afterwards. We end around 8 PM.**

There's no charge. The Wynkoop is generously providing the facility; we buy our own food and drinks. It will be first come, first seated, and **seating is limited** so that everyone who wants to can be part of the discussion.

The Colorado Café Scientifique is organized by an informal group of President's Teaching Scholars and other faculty from CU and institutions up and down the Front Range, as well as science types from industry, government and elsewhere. We welcome your input, including ideas for speakers and topics. Bring them with you to the next Café, or e-mail them and any questions to [John.Cohen@UCHSC.edu](mailto:John.Cohen@UCHSC.edu)

**Further essential information on our Web site at  
<http://CafeSciColorado.org>**