



Look familiar? This is iridescent biofilm of iron cycling bacteria on the surface of the tundra. This is also referred to as “bog oil”

Let’s have some homemade soup and learn about:

- *why very little oxygen penetrates into the deeper soil layers in the tundra;*
- when oxygen is not available, how Arctic soil microbes can use a surprising number of alternative compounds for anaerobic respiration, including iron oxides and organic chlorine-molecules.*

SOUP N’ SCIENCE

SAN DIEGO STATE UNIVERSITY

HOW THE NUNA BREATHES: LINKING CARBON, IRON, AND CHLORINE CYCLES IN THE ARCTIC COASTAL PLAIN

UIC Science is excited to host Dr. David Lipson and his team from SDSU. Past research into chlorine cycling has been focused on contaminated sites with pesticides and industrial solvents. Dr. Lipson’s research group has discovered a complex natural chlorine cycle in coastal tundra (nuna). The cycling of chlorine and iron has implications for greenhouse gas emissions from the tundra. Come learn and eat some homemade soup!

Presenter:
Dr. David Lipson, SDSU

Time: 12 (noon)
Tuesday, April 24, 2018
Place: BARC Large Conference room (Barrow Arctic Research Center is located on the NARL campus).

Questions or Comments? Contact:
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Image courtesy of David Lipson