

Earth Care Forum Series – 2021

Sundays, January 3 – February 7

9:00 – 10:10 am

Zoom Link here: <https://us02web.zoom.us/j/86455642954?pwd=YzdJKzNGUTd4YUF6SmFKMGFwNEdhdz09>

January 3 Construction of Tiny Homes at the Lawrence Community Shelter

Presenter: Dan Rockhill is the principal of the Architecture firm Rockhill and Associates and is the JL Constant Distinguished Professor of Architecture at the University of Kansas School of Architecture, Design, and Planning

Description: Rockhill will provide origin of KU Architecture Program and discuss the necessary planning and development required for the construction of these sustainable homes.

January 10 How (and Why) to Tattoo Greenhouses with Semi-Transparent Solar Panels

Presenter: Rebekah Waller, Ph.D. candidate, University of Arizona, Biosystems Engineering

Description: Greenhouses are increasingly seen as a critical part of resilient food systems. Waller will present photovoltaic "tattoos" as an inexpensive eco-friendly strategy to produce food and renewable energy on the same land footprint.

January 17 Thinking Deeper: How Roots Mediate Human Activity in Earth's Critical Zone

Presenter: Emma Hauser, Ph.D. candidate, University of Kansas, Ecology and Evolutionary Biology Department (Dr. Sharon Billings' laboratory)

Description: Hauser will examine the ways plant roots contribute to nutrient availability, the ways human activities are changing roots, and what that may mean for future nutrient availability.

January 24 Sustaining the Douglas County Food System

Presenters: Jasmin Moore, Sustainability Director, Lawrence/Douglas County and Kim Criner Ritchie, Sustainability and Food Systems Analyst for Douglas County

Description: Join the Lawrence-Douglas County Sustainability Office for an overview of progress on community food system goals outlined in the Douglas County Food System Plan. This discussion will highlight the Partnerships for Food Resource Recovery Project launching in 2021, funded by a recent \$90,000 USDA award to the County to support efforts to reduce and recapture food waste.

January 31 Climate Change and Need for Refrigeration

Presenter: Mark B. Shiflett, Ph.D., P.E., Foundation Distinguished Professor, The University of Kansas, Chemical and Petroleum Engineering

Description: The presentation will be on history and future of refrigerants and current research, including the recycling/repurposing of refrigerants.

February 7 The 2020s: The Do-or-Die Decade for Climate

Presenter: Stan Cox is a research fellow in Ecosphere Studies at The Land Institute in Salina, Kansas. His most recent book is *The Green New Deal and Beyond: Ending the Climate Emergency While We Still Can* (City Lights, 2020).

Description: The "New Deal" aspects of the Green New Deal and the Biden Administration's climate plans are timely as we confront a pandemic and economic hardship. But the "Green" part needs to be fortified with the most crucial element of all: a direct mechanism to drive fossil fuel use down to zero by a strict deadline.



Since 2015, the EcoTeam of First Presbyterian Church, Lawrence, KS, has coordinated presentations by well-informed individuals addressing significant earth care concerns. First Presbyterian Church is recognized as an Earth Care Congregation of the Presbyterian (USA) denomination and is a member of Lawrence Ecology Teams United in Sustainability (An interfaith network of green teams related to the following faith traditions: Muslim, Jewish, Catholic, Protestant.)