



University of Maryland  
 CENTER FOR ENVIRONMENTAL SCIENCE  
 CHESAPEAKE BIOLOGICAL LABORATORY

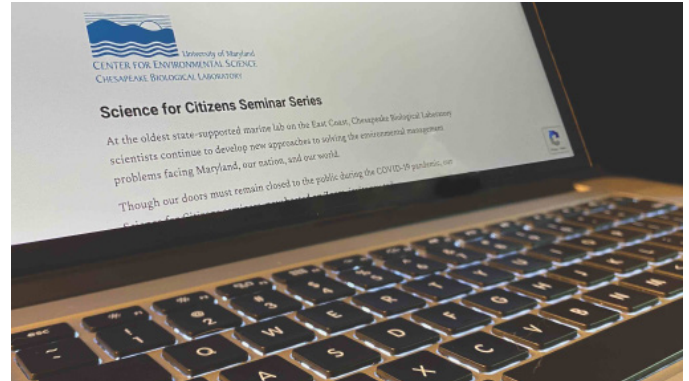
# UMCES' Chesapeake Biological Laboratory presents SCIENCE FOR COMMUNITIES A Free Zoom Webinar Series

A FREE, hour-long Science for Communities webinar will be presented on each of the following **Tuesdays at 7:00pm**. After each presentation, there will be a moderated question and answer session.

**Registration is Required:**

**<https://www.usmf.org/s4c/>**

After registering, a link to join the webinar(s) via Zoom will be sent to the email address you provide.



## Climate Change 101

**Sept.  
28**

*Presented by Dr. Hali Kilbourne, UMCES - CBL*

You've heard the term climate change, but have you ever wondered how our climate is actually changing? How do we know humans are causing it? And, so what? Earth's climate has always changed. If it is a serious problem, what do we do now? Dr. Kilbourne will start with the basics and lay out the facts to help you better understand this growing issue.

## Future Wildland Fire: Land Management & Climate Change

**Oct.  
05**

*Presented by Dr. Mark Cochrane, UMCES - AL*

Every year we seem to hear of more and more catastrophic wildfires burning here and abroad. The trend is real but the predicament that we face with future wildland fires is the result of both earlier land management actions and the growing influence of climate change. To adapt to changing conditions and mitigate the threats posed by future wildfires, a paradigm shift is needed in how societies view and manage wildfire.

## Climate Impacts on Golden Tilefish: Past & Present

**Oct.  
12**

*Presented by Dr. Genny Nesslage, UMCES - CBL*

Golden tilefish is a large, bottom-dwelling marine fish that is particularly susceptible to climate change because it can tolerate only a very narrow range of temperatures. In 1882, millions of golden tilefish died in a sudden mortality event caused by an unusually strong influx of arctic water into the Mid-Atlantic. Since then, scientists have been fascinated with the relationship between ocean conditions and tilefish dynamics. In this seminar, Dr. Genny Nesslage will describe past and present research on the linkage between climate and trends in the golden tilefish fishery.

# Climate Warming and the Changing Pacific Arctic Marine Ecosystem

Oct.  
19

*Presented by Dr. Jackie Grebmeier, UMCES - CBL*

The Bering and Chukchi Seas are undergoing dramatic sea ice reduction and warming conditions that are shifting the composition of bottom-dwelling prey for marine mammals, seabirds and commercial fish in the region. Field studies by CBL scientists are tracking ecosystem status and trends within the international Distributed Biological Observatory (DBO) network. In this webinar, internationally recognized Arctic expert Dr. Jackie Grebmeier will share highlights of scientific findings from the rapidly changing Arctic.

## The Intergovernmental Panel on Climate Change: Ins, Outs, Demands & Frustrations of Serving as Lead Author of Working Group II

Oct.  
26

*Presented by Dr. Libby Jewett, NOAA*

As part of a multi-year global climate change assessment process, Working Group II of the Intergovernmental Panel on Climate Change (IPCC) seeks to assess the vulnerability of socio-economic and natural systems to climate change, negative and positive impacts of climate change, and options for adapting to it... But why should we believe what these scientists tell us? As lead author of Working Group II, Dr. Libby Jewett can shed light on the integrity and hard work, as well as the challenges, that are key to developing this high-profile report. In this seminar, Jewett will discuss the rigorous process and extensive scientific review through which Working Group II's report must pass prior to its expected release in 2022.

## Risk Assessment in the Face of Climate Change

Nov.  
02

*Presented by Dr. Slava Lyubchich, UMCES - CBL*

Traditionally, long-term observations have been a key component in assessing the risks of weather-induced losses. However, most recent climate trends require the inclusion of future climate projections into the methods and models used to assess the risks. In this seminar, Dr. Slava Lyubchich will discuss how this step has important implications for building codes, pricing agricultural and home insurance.



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