

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

**Environmental Impact of Currently Marketed Sunscreens and
Potential Human Impacts of Changes in Sunscreen Usage**

Public Meeting: Sources and Fates of UV Filters in the Aquatic Environment

Thursday, May 27-28, 2:00-5:00pm Eastern

All Times are Eastern

Meeting objectives: This is one of several information gathering meetings for the National Academies committee on Environmental Impact of Currently Marketed Sunscreens and Potential Human Impacts of Changes in Sunscreen Usage. The purpose of these meetings is to collect information and perspectives that may be informative to their task, and will be held on a variety of topics pertinent to the committee's task.

At this meeting, the committee will explore what is known about the sources of UV filters in the environment, their fate in aquatic environments, and potential exposure to aquatic ecosystems. Information about UV filters specifically may not be available in all cases and discussion may focus on methods and parallels from other contaminants. *Each speaker will deliver a presentation followed by Q&A with the committee.*

Thursday, May 27, 2021

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| 2:00 PM | Opening Remarks
Charles Menzie, <i>Committee Chair</i>
Emily Twigg, <i>Study Director</i> |
| 2:10 PM | UV filter environmental sources and ecotoxicological data reliability assessment
Iain Davies, <i>Personal Care Products Council</i> |
| 2:40 PM | Sources and environmental fate of organic UV filters
Michael Gonsior, <i>University of Maryland Center for Environmental Science</i> |
| 3:10 PM | <i>Break</i> |
| 3:30 PM | UV filter occurrence in Chesapeake Bay water, sediment, and aquatic organisms
Lee Blaney, <i>University of Maryland Baltimore County</i> |
| 4:00 PM | Ultraviolet light filtering chemical (sunscreen) presence in marine surface waters of bays within the Virgin Islands National Park
Tim Bargar, <i>U.S. Geological Survey</i> |
| 4:30 PM | Detection and fate of organic UV filters in freshwater and wastewater
Elissa O'Malley, <i>PhD from University of Queensland</i> |
| 5:00 PM | <i>Adjourn for the day</i> |

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Friday, May 28, 2021

- 2:00 PM **Welcome to Day 2**
Charles Menzie, *Committee Chair*
Emily Twigg, *Study Director*
- 2:10 PM **Occurrence and Fate of PPCPs in Wastewater Treatment Processes**
Joan Oppenheimer, *Stantec*
- 2:40 PM **A brief summary of transport processes in surface waters**
Eric Adams, *Massachusetts Institute of Technology*
- 3:10 PM *Break*
- 3:30 PM **Exposure modeling of UV filters in aquatic environments**
Emily Burns, *Personal Care Products Council*
- 4:00 PM **Fate & ecotoxicity considerations for nanomaterials used in sunscreens**
Arturo Keller, *University of California Santa Barbara*
- 4:30 PM **Aquatic Source to Receptor Approach For Evaluating Complex Chemical Mixtures**
Larry Barber, *U.S. Geological Survey*
- 5:00 PM *Adjourn*

Updates may be made to the agenda in advance of the meeting.