



# Plants and Pollution NBRI- EIACP-PC

December  
06,2023

## Researchers discover plant diversity stabilizes soil temperature

A new study has revealed a natural solution to mitigate the effects of climate change, such as extreme weather events. Researchers from Leipzig University, the Friedrich Schiller University Jena, the German Center for Integrative Biodiversity Research Halle-Jena-Leipzig (iDiv) and other research institutions have discovered that high plant diversity acts as a buffer against fluctuations in soil temperature. This buffer can then be of vital importance to ecosystem processes.....[read more](#)

December  
07,2023

## How agriculture can make the most of one of the world's biggest carbon stocks, soil

It's right under our feet. We barely notice as we go about our lives, yet it is nothing less than the largest carbon repository among all of Earth's ecosystems. This distinction is awarded neither to forests, nor to the atmosphere, but to our soils. There are around 2,400 billion tons of carbon in the first two meters below ground, which is three times as much as in the atmosphere.....[read more](#)

December  
08,2023

## Novel tool informs land use and nutrient control in troubled waters

In watersheds degraded by runoff of nutrients from farmland, land managers struggle to pinpoint the best locations to install riparian buffer strips along streams or other pollution-reduction practices, but a new technology devised by Penn State scientists promises to make the search for those sites easier and less expensive.....[read more](#)

December  
08,2023

## California's greenhouse gas emissions are rising, and we're not even counting them all

California has committed to substantially reducing its greenhouse gas emissions, aiming for carbon neutrality by 2045. The pledge is key to Gov. Gavin Newsom's claims of climate leadership, which featured prominently in his recent visits to China and the United Nations.....[read more](#)

December  
12,2023

## Q&A: Finding more sustainable ways to use plastics in agriculture

Every year, according to the United Nations Food and Agriculture Organization, some 12.5 million tonnes of plastic are used in agricultural production worldwide. Plastic is a boon to farmers, but leads to large quantities of macro-, micro- and nanoplastics accumulating in soils and other receiving environments. The particles even seep into the food chain. Recognizing that plastics pose a growing threat to soil function and the natural environment overall, in an article this fall in Communications Earth & Environment an international group of scientists highlighted the urgent need for a more sustainable use of the materials in agricultural food production.....[read more](#)

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