

To prevent sick house syndrome using peanut shell

Komatsu Kenta^{1,*}, Honjo Aiko¹, Yasunaga Toyomu¹, and Naito Kyoya¹

¹ Shiritsu Sapporo Kaisei Secondary School, 1-1, N22E21, Higashi-ku, Sapporo, Hokkaido, 065-8558 Japan

* Corresponding author

Submission Category: (A)

SDGs Targets/Indicators: 3

Abstract:

Many products have been made of woods since ancient times in Japan which had wood resources in abundance. And formaldehyde is generated when component of rosin including instant glue which connect with the woods volatilize. It causes sick house syndrome. If people suffer from it, they feel a pain in eyes, nose and throat so on, getting headache, feeling heavy and cannot concentrate. Therefore, all over Japan need to decrease amount of formaldehyde in the room as less as possible. In addition, Sapporo where I live cause sick house syndrome easily because of building in Sapporo which is cold area has thermal insulation. So, number of people who have sick house syndrome is higher than other prefecture. According to essay in University of Chiba, peanut shell has effect that it absorbs formaldehyde. Therefore, they can make house which there is little possibility to get sick house syndrome by putting peanut shells into building materials. Actually, there is company which made the building materials to use diatomaceous earth with peanuts shell. But it doesn't spread because of the amount of people who live in home with earthen wall is fewer than the others Also we make concrete construction including peanut shells and we found a condition that improve efficiency of amount of absorbing formaldehyde