

COURSE - Comfortable and Healthy Indoor Environments

Lecture: General indoor air pollutants and the role of fungi and fungal products in indoor air

Prof. Heidi Salonen

Timetable

- ▶ 13:15-13:35 Introduction lecture
- ► 13:35-15:00 Presentations (8 Pairs will present their presentations during the lecture (selection is based on the lottery).
- + discussion (including a break)
- ▶15:00-15:15 Test
- ▶ 15:30-16:00 Laboratory visit

Learning outcomes of the lecture

- Characterize and communicate the general indoor air pollutants
- ► Characterize and communicate the role of fungi and fungal products in indoor air
- ► Pair working and presentation skills

Some Indoor Air Quality Statistics

- ► People spend over 90% of their time indoors
- Indoor air quality is 2 to 5 x worse than outdoor air quality
- Indoor air pollution ranked in EPA's Top 5 environmental risks to public health
- 50% of illnesses are caused by aggravated indoor air pollution

General indoor air pollutants and their sources in a

lecture room 216?

(pair discussion 5 min)





https://www.youtube.com/watch?v=MM14B 6dzYYg 1) BOOK: Environmental Sciences » "Chemistry, Emission Control, Radioactive Pollution and Indoor Air Quality", book edited by Nicolas Mazzeo, ISBN 978-953-307-316-3, Published: July 27, 2011 under CC BY-NC-SA 3.0 license. © The Author(s). Chapter 17. Indoor Air Pollutants and the Impact on Human Health. By Marios P. Tsakas, Apostolos P Siskos and Panayotis Siskos . DOI: 10.5772/18806. Available online at:

https://www.intechopen.com/books/chemistry-emission-control-radioactive-pollution-and-indoor-air-quality/indoor-air-pollutants-and-the-impact-on-

human-health

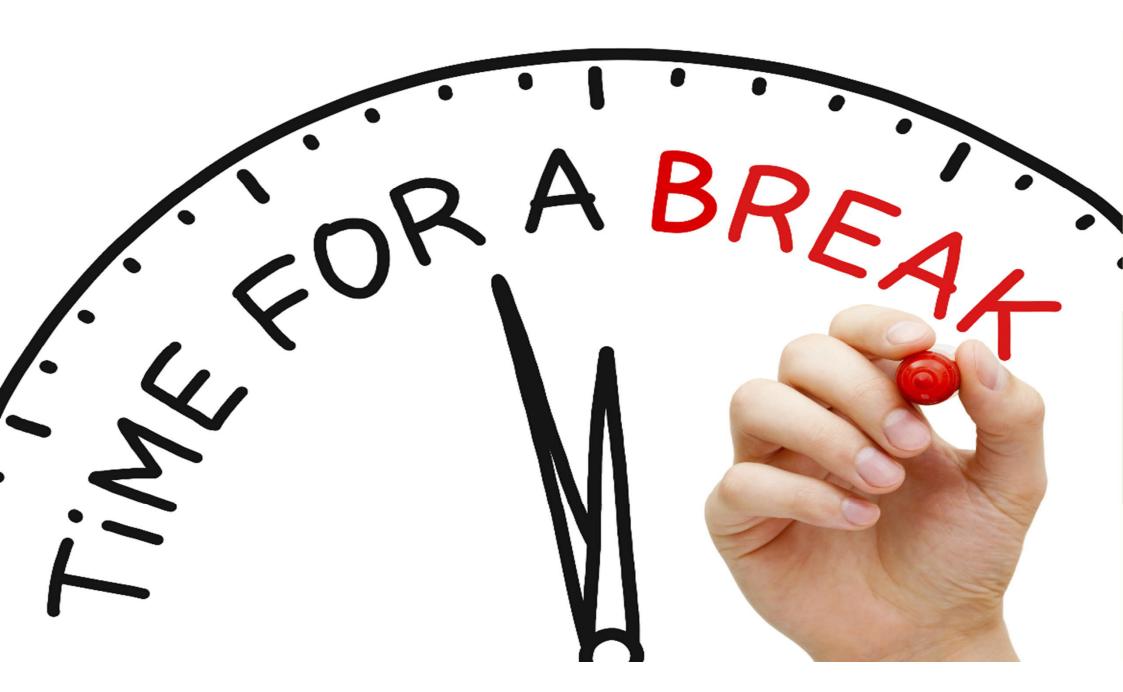








https://www.youtube.com/watch
?v=DlbDl1ZfdTg



2) ARTICLE: Nevalainen A, Täubel M, Hyvärinen A. Indoor fungi: companions and contaminants. Invited review. Indoor air 2015, 25 (2), p.125-156. Available online

at: http://onlinelibrary.wiley.com/doi/10.1111/ina.12182/epdf



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Invited Review

Indoor fungi: companions and contaminants

A. Nevalainen M. M. Täubel, A. Hyvärinen

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https://www.youtube.com/watch
?v=MUdN_HIUvrl







https://www.youtube.com/watch ?v=7TE3OaXzI9w

Test (15 min)





Reading the lecture + group work materials.





"When the waters subside, the problem's going to be mold."