



Transport of Radon and Thoron in Polymers

21-22 MARCH 2019, Faculty of Physics, Sofia University "St. Kliment Ohridski"

Workshop in the framework of Activity A.2.3.3 of WP 2 of MetroRADON

PROGRAMME

21 March 2019

- 09:30 **Welcome**
- 09:35 S. Georgiev et. al., *Study of the Partition Coefficient and the Diffusion Length of Radon in Polymers at Different Temperatures: Experimental Approach and Results*
- 10:05 L. Tommasino, D. Pressyanov, *A Better Understanding of the gas Sorption in Plastics Conducive to Correct Radon Measurements and to Advanced Radon Monitors*
- 11:05 **Coffee break**
- 11:30 D. Pressyanov, *Anti-thoron polymer membranes and their influence on radon measurements – the problem and the surprise*
- 12:30 **Lunch**
- 14:00 B. Sabot, *Production of mixed radioactive gas atmosphere and proposition of setup to test Rn-220 and Rn-222 separation by polymer foils*
- 15:00 **Coffee break**
- 15:30 K. Mitev et. al., *Remark on the potential influence of the way of polymer production on their radon absorption properties.*
- 16:00-17:00 **Discussions**

22 March 2019

- 09:30 – 12:30 **Laboratory visit and discussions on the experimental methods for determination of L_D , K and P and their temperature dependence.**
- 12:30 **Lunch**
- 14:00 **Round table:** Review of the presented data and discussions on the applicability of different filters/foils/membranes that might serve as selective thoron barriers whilst not reducing radon penetration significantly.
- 16:30 **Closure of the workshop**