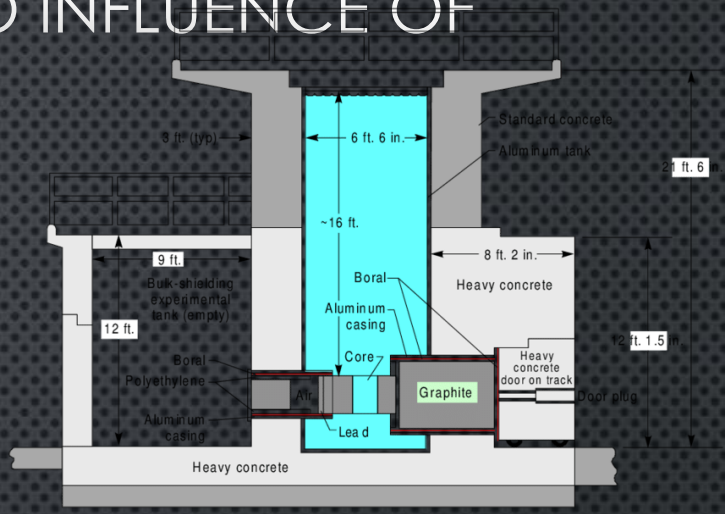
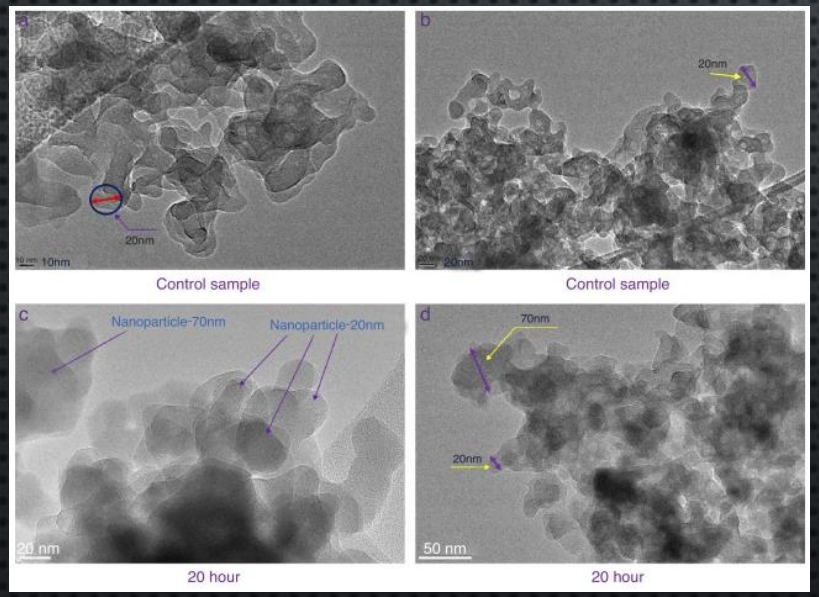
TEM AND SEM STUDY OF NANO SiO_2 PARTICLES EXPOSED TO INFLUENCE OF NEUTRON FLUX

- THE SAMPLES WERE IRRADIATED BYE NEUTRON FLUX (2×10^{13} N CM^{-2} S^{-1}) IN THE CENTRAL CHANNEL OF THE TRIGA MARK II AT FULL POWER (250KW).
- THEY USE THE NEUTRON FLUX TO SEE IF THE NANOPARTICLES INCREASED THEIR SIZE.





* IN THE IMAGES A AND B THE SIZE OF THE NANOPARTICLE ARE OF 20 NM.
* IN THE IMAGES C AND D THERE ARE NANOPARTICLES OF 70 NM OF DIAMETER.
* IN CONCLUSION THEY SAID THAT THE NEUTRAL FLUX HELP TO INCREASE THE ADHESION OF SILICA NANOPARTICLES WITH THE HELP OF THE NEUTRAL FLUX.

"Huseynov, E., Garibov, A., & Mehdiyeva, R. (2016). TEM and SEM study of nano SiO2 particles exposed to influence of neutron flux. *Journal of Materials Research and Technology*, *5*(3), 213-218."