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**Out-of-Equilibrium to In-Equilibrium Dynamics of SiO<sub>2</sub>**<sup>1</sup> KATHARINA VOLLMAYR-LEE, JAKE ROMAN, Bucknell University, JUERGEN HORBACH, DLR, Koeln, Germany — We study the aging dynamics of SiO<sub>2</sub> (modeled by the BKS model) via molecular dynamics simulations. The system is well equilibrated at temperature  $T_{\text{high}}$ , then quenched to  $T_{\text{low}}$  and observed after a waiting time  $t_{\text{wait}}$ . We present results for the structure factor, for the mean squared displacement, and for the intermediate scattering function. The resulting relaxation times show for the largest investigated  $T_{\text{low}}$  that during the simulation run the system is first out-of-equilibrium and then reaches equilibrium with relaxation times independent of  $T_{\text{high}}$  and  $t_{\text{wait}}$ .

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- Prefer Oral Session  
 Prefer Poster Session

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