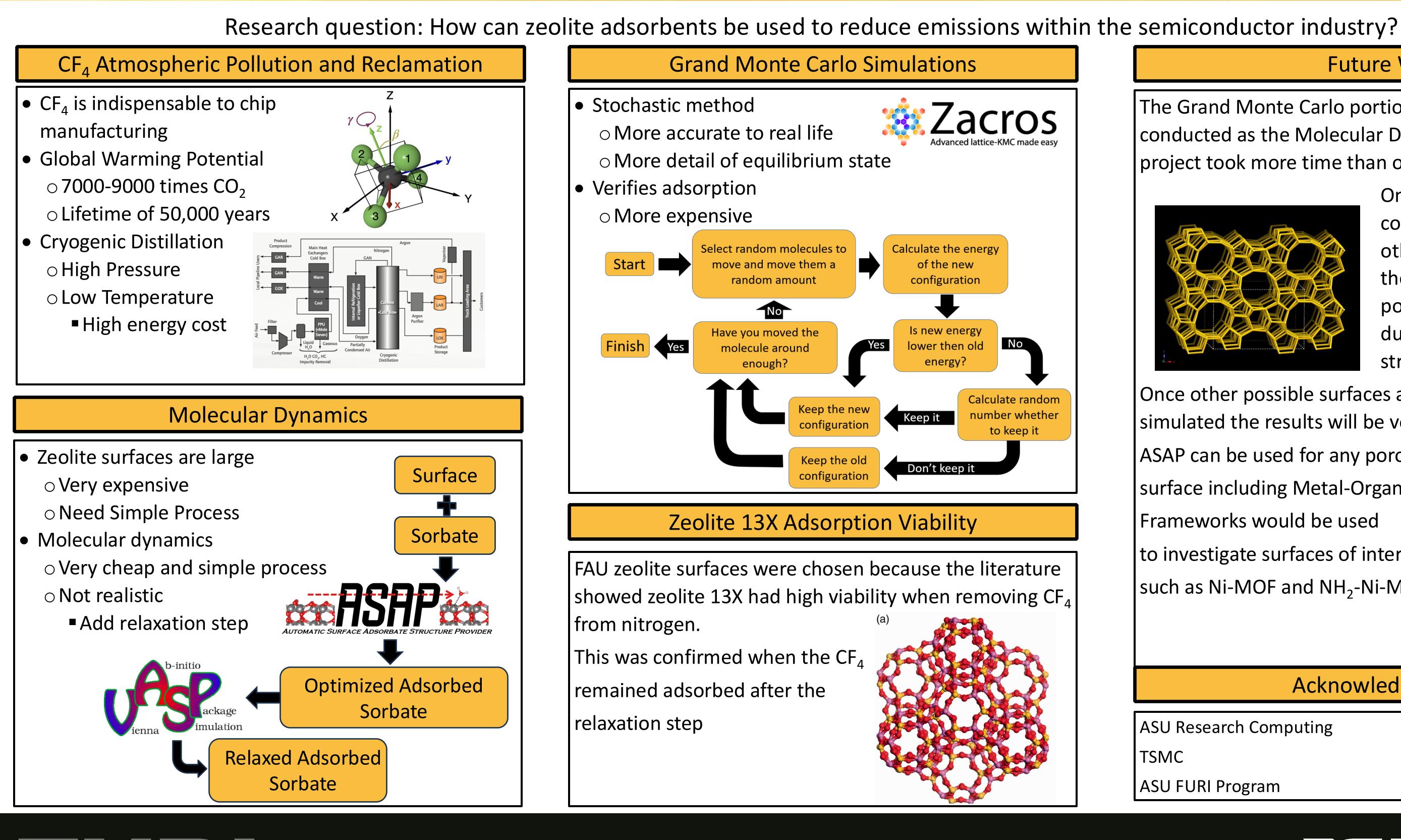
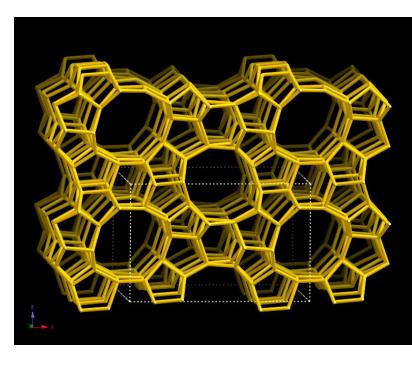
Adsorption of Tetrafluoromethane on FAU Framework Zeolites – a Molecular Dynamics and Grand Monte Carlo Study Jay Schroeder, Chemical Engineering Mentor: Shuguang Deng, Professor



School for Engineering of Matter, Transport and Energy







ASAP can be used for any porous surface including Metal-Organic Frameworks would be used to investigate surfaces of interest such as Ni-MOF and NH₂-Ni-MOF.

TSMC

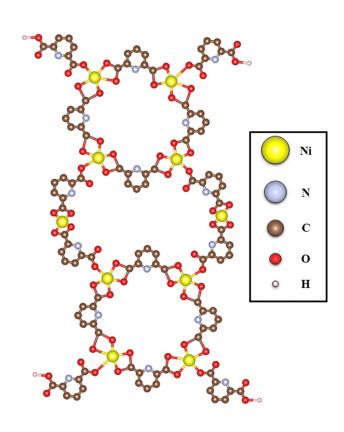


Future Work

The Grand Monte Carlo portion still needs to be conducted as the Molecular Dynamics portion of the project took more time than originally anticipated.

> Once completed this method could be expanded to any other zeolite framework in the database. MFI is a possibly promising structure due to its medium-sized pore structure.

Once other possible surfaces are identified and simulated the results will be verified further in the lab.



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