

Monthly Report to the (e)614u [(r)-6 (o)-8 (c)-2 (ks)]TJ 0 Tc 0 Tw 2.14 0 Td (-)Tj -0.003 Tc 0.003 Tw 0.31 0

national and international presenters on a panel regarding Harnessing Urban Youth to Transform our Urban Communities <https://www.ueforum.org/uef-2021>

Chemistry Professor Dr. Noam Weinberg and Chemistry LTA Instructor, Dr. Jake Spooner submitted a grant application as co-investigators to the Petroleum Research Fund of the American Chemical Society for \$70,000 over 3 years. Most of the funds will be dedicated to undergrad student salaries. The project title is: Thermodynamic Stability of Petroleum Hydrocarbons at Geochemical Conditions. Dr. Spooner also submitted an abstract for an oral presentation at the American Physical Society March Meeting 2022 in Chicago, Illinois. The presentation A Newtonian Algorithm for Constant Pressure Molecular Dynamics with Periodic Boundary Conditions has also been submitted to the Journal of Molecular Physics (see bibliography information below).

### Building Community

Biology Assistant Professor and EFCIE Faculty Association member, Sandra Gillespie, held a

tenure. He shared important information ... some certainly worrisome, with levity and hope for our future, all from the perspective of a resident of the Fraser Valley. The full Climate Crisis! series can be viewed on chillTV's Facebook Playlist:

<https://www.facebook.com/watch/733851043405590/605084610730031>

Sample List of Presentations/Publications (UFV student names underlined> by FoS personnel:

LeeLEJ, BolsNC (2021) Use of fish cell lines as model systems. Gill Health Initiative meeting, Stirling, Scotland, Oct 26-27 (virtual).

PritchardD, GoldbachR, LeeJB, BolsNC, LeeLEJ (2021) Development and use of epithelial cell lines from the olfactory mucosa, gill and gut to study the actions of nitrite in rainbow trout. Canadian Ecotoxicity Workshop (Halifax, NS)

Sentell, Z., Spooner, J., Weinberg, N. Calculation of Molecular Volumes of Amino Acids. Under Revision. Canadian Journal of Chemistry

Spooner, J., Eslamibidgoli, M. J., Malek, K., Eikerling, M. Molecular dynamics study of the proton density distribution at ionomer substrate interfaces in PEM cathode catalyst layers. Submitted for publication.

Solhaug, A., Gjessing, M., Dahle, M., Kristensen, T., Ivanova, L., Sindre, H., Olsvik, P., Nowak, B., Slattery, O., LeeLEJ (2021) Development of an in vitro model to study environmental factors influencing the gill epithelial function (GILLMODEL). Gill Health Initiative meeting, Stirling, Scotland, Oct 26-27 (virtual).

Weinberg, N., Edwards, E., Huber, L., Sentell, Z., Spooner, J., A Newtonian Algorithm for Constant Pressure Molecular Dynamics with Periodic Boundary Conditions Under revision. Molecular Physics