

## **Senior Physicist Validates Technology Underlying Sylvan Source Product Families**

January 17, 2023 – San Carlos, CA. Sylvan Source Inc. (SSI) announced that Alan D. Bross, Senior Scientist at Fermilab, has evaluated and validated SSI's technology under a non-disclosure agreement. Dr. Bross received his Bachelor of Science degree in Physics from the California Institute of Technology (Caltech) and a PhD in Physics from University of Illinois Urbana-Champaign. He has served in various roles for over 30 years at Fermilab, which describes itself as America's particle physics and accelerator laboratory, and is managed by the Fermi Research Alliance LLC for the U.S. Department of Energy Office of Science.

Dr. Bross stated that the thermal conductivity of SSI's heat transfer technology "is significantly higher than that of a conventional heat exchanger." After noting that SSI operated a pilot plant at Southern California Edison in 2016 and 2018 within the performance envelop that SSI defined and met their cost benchmark, he said "there are no fundamental reasons that would prevent this system from being scaled to an industrial size of 100K to 1M gpd," and recommended next steps in the scaling process.

Laura Demmons, SSI Chairman and CEO, said "Dr. Bross' analysis is consistent with what SSI has found. The company has completed research, development, and pilot testing and is beginning to scale its technology, a path that successful deep technology firms follow to reach full commercialization. SSI has already completed some of Dr. Bross' recommended steps for scaling and has found that its cost advantage when compared to conventional heat exchanger technology is maintained with the scale up in system sizing. We are in discussions with multiple potential customers in several industries including energy, semiconductor manufacturing and mining, for potential deployments."

Dr. Bross has no affiliation with SSI and no financial interest in SSI's future success. Dr. Bross undertook his technical review of SSI's technology strictly in his personal capacity, and his evaluation does not represent an endorsement of SSI by him, Fermilab or the U.S. Department of Energy.

### **About Sylvan Source**

Sylvan Source, Inc. (SSI) develops novel industrial and municipal water treatment and thermal energy management systems. The company's technology platforms are applicable to a broad range of industrial processing and thermal energy management applications, as well as complicated or challenging water treatment opportunities. SSI's technologies incorporate fundamental cost structure advantages with significant energy and process efficiency gains. SSI is headquartered in San Carlos, California and is privately held.