



## **Aether Catalyst Solutions, Inc. Engages NuWave Research Inc. for Proof-of-Concept Study**

Burnaby, British Columbia--(Newsfile Corp. - December 8, 2021) - **Aether Catalyst Solutions, Inc. (CSE: ATHR) (FSE: 2QZ) ("ATHR" or the "Company")** is pleased to announce that it has engaged NuWave Research Inc. of Burnaby, B.C., to conduct a proof-of- concept study evaluating their Microwave Assisted Processing technology for use in the manufacture of Aether's catalyst.

An even and uniform coating of catalyst on substrate bricks is necessary for optimal performance of a catalytic system. Over the last three decades, catalyst coaters have developed proprietary technologies, processes, and equipment to facilitate that result. Lacking access to those technologies, processes, and equipment, at this stage, Aether has had to jury-rig processes and equipment to attempt to optimize coating - essentially reinventing the wheel. However, these improvised systems do not scale well, and lead to unoptimized catalytic systems and the resultant lower performance. For example, Aether's larger scale catalysts have sub-optimal coating in their centres - dramatically lowering performance.

Aether has engaged NuWave to produce a proof-of-concept study utilizing their Rapid Low-Temperature Dehydration (RLTD) microwave technology to dry our catalyst quickly and evenly between coats. Typically, Aether's catalysts require numerous coatings, extended drying time between coats, and take days to prepare; the Company believes that this extended drying time allows the catalytic material to wick towards the periphery of the brick, leaving the centre sub-optimally coated. The NuWave RLTD technology promises rapid drying, preventing the migration of the catalyst, and resulting in a more even distribution of the catalyst over the brick. A tremendous additional benefit of the NuWave technology would be speeding up the production time of a catalyst brick by over 24 times - allowing for a step change in iteration speed.

If the proof-of-concept study is successful, Aether expects a substantial increase in performance of our small-motors catalyst. These greatly reduced processing times could be highly beneficial to the Fleetco project with respect to turnaround times between tests.

Taylor Procyk, Chief Operating Officer of Aether, comments, "Radiofrequency ("RF") drying is cutting edge technology that offers much greater control over the catalyst distribution and drying time. As stated, this is an issue of scale, thus our parts for Fleet Co. are even more greatly affected by it, making this project particularly timely. The scientists and engineers at NuWave are experts in the application of RF for drying; I'm very excited about the prospects for our catalyst with this technology."

"We are excited to be working with the team at Aether Catalyst Solutions to use NuWave's technology in accelerating their manufacturing processes. Through this project we look forward to



helping advance Aether's efforts to solve one of the critical problems facing the world today," - Greg Stromotich, CEO & Founder - NuWave Research Inc.

#### **ABOUT NUWAVE:**

NuWave Research, Inc. is an innovative technology company that manufactures industrial microwave equipment. NuWave's patented Vacuum Microwave Dehydration (VMD) technology enables rapid precision drying solutions that bypass the conventional quality-speed trade-off of traditional methods. NuWave's Technology is also used to enable Microwave Assisted Organic Synthesis Reactions (MAOS) that significantly reduce processing times for organic synthesis reactions. MAOS reactors enable innovators to commercialize their venture by taking operations from the R&D lab to full scale production.

#### **ABOUT AETHER:**

Aether Catalyst Solutions, Inc. is focused on providing an order of magnitude cost reduction in automotive catalytic converter catalyst, while meeting, or exceeding government emission standards. Aether is working to quickly advance its technology through rapid screening of new material combinations. While Aether's primary focus has been automotive applications, the company is also developing catalysts to address small motors emissions - a significant contributor to urban air pollution.

#### **FOR FURTHER INFORMATION PLEASE CONTACT:**

Aether Catalyst Solutions, Inc.  
Paul Woodward  
President  
Tel: 604 690-3797  
<http://www.aethercatalyst.com>

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#### ***Forward-Looking Information***

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