Mason Scientists Receive $1.2M Grant

Thomas Lovejoy Elected to National Academy of Sciences

Researchers test Mason wastewater to catch potential COVID-19 cases

Researchers: wastewater can be used to detect COVID-19

Mason [in]spires with $1.2M NSF grant to study rapid atmospheric control

Seshaiyer, a University Professor and director of the MASD program, is also principal investigator on the grant.

Padhu Seshaiyer, a University Professor in the Department of Atmospheric, Oceanic and Earth Sciences, and director of the Climate Dynamics program in the Center for Ocean-Land-Atmosphere Studies (COLAS), is also principal investigator on the grant.

The grant is titled "Rapidly Rotating Ultra-Cool Dwarfs: From Origin to Evolutionary Signatures" and aims to provide a detailed study of the newly discovered class of rapidly rotating ultra-cool dwarfs. These stars are believed to be the evolutionary descendants of brown dwarfs, which are objects that are not massive enough to initiate nuclear fusion in their cores.

The grant will support a wide range of activities, including the construction of a new long guided telescope tour of the night's sky, which will be used to identify and study these stars. The tour will be conducted at least once a week, and the content of each tour will be determined by the current research focus of the grant.

In addition to the telescope tour, the grant will also support a series of public lectures by leading scientists in the field, as well as a series of educational workshops for students and teachers. The workshops will focus on the latest research findings and will be designed to inspire the next generation of scientists.

The grant is funded by the National Science Foundation (NSF) and is expected to have a significant impact on our understanding of the early evolutionary stages of stars and the role of rotation in their development.

Message from the Dean

Dear Mason Community,

I am proud to announce that we have received another milestone grant for Mason research. This $1.2M grant from the National Science Foundation (NSF) will fund research on rapid atmospheric control, optimization, and anomalous (nonlocal) diffusion, with a broad range of applications.

This grant is a testament to the hard work and dedication of our researchers and faculty, who are always striving to push the boundaries of knowledge and innovation. It is also a testament to the support and trust that our esteemed granting agencies, such as the NSF, place in our research capabilities.

We are excited about the potential of this grant to advance our research agenda and to drive new breakthroughs in the fields of atmospheric, oceanic, and earth sciences. We are confident that this grant will have a significant impact on our ability to address some of the most pressing challenges of our time, such as climate change and natural disasters.

As always, I encourage you to stay informed about our research activities and to support our efforts wherever possible. We are committed to making a difference, and we cannot do it without the support of our Mason community.

Thank you for your support and your continued commitment to excellence.

Best regards,

Dean for Academic Affairs and Research and Education Center

Fernando Miralles-Wilhelm