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Full mission progress on Twitter: @SuGRE_1
YouTube: <http://bit.ly/2AvTdbk> | www.SuGRE-1.com



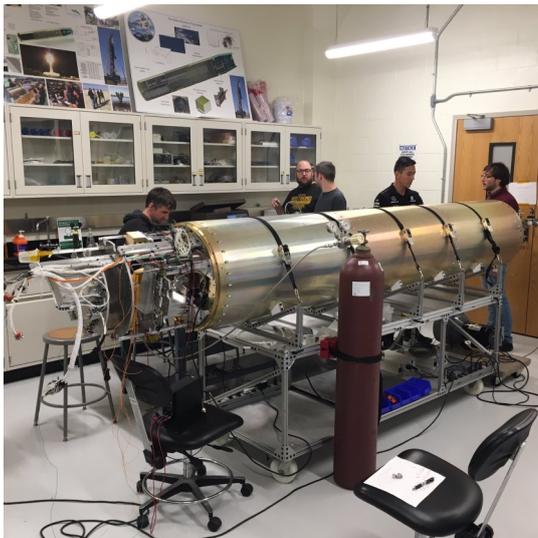
Mission Logo compiled from a design competition at the SuGRE-1 launch weekend, MK Innovates STEM Festival, Middleton Hall, Central Milton Keynes 7-8 July 2017

For Immediate Release

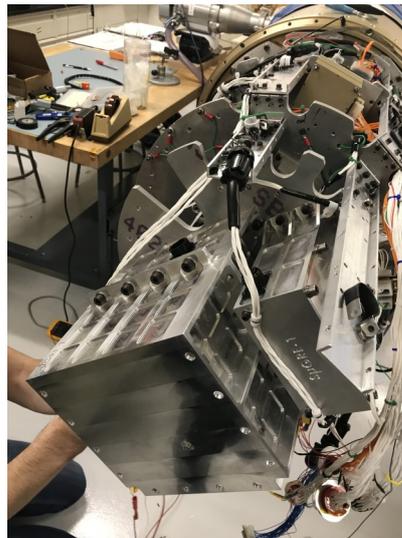
Bletchley Park based science innovation company offers school children the opportunity to fly a sculpture into space on board a NASA rocket for free.

After successful integration of their experiment on to the NASA WRX-R Rocket in Pennsylvania, Bletchley Park based Dynamic Imaging Analytics Limited (DIAL)'s μ GRE-1 space mission is taking shape.

SuGRE-1 (Schools micro-Gravity Rocket Experiment) is an exciting opportunity for schools, colleges and home-schooling households to design a sculpture to be part of a micro-gravity and 3D imaging experimental rocket payload, scheduled to launch from the Pacific Marshall Islands in April 2018.



The NASA Black Brant IX sounding rocket in construction at Penn State University, department of Astronomy and Astrophysics.



The SuGRE-1 payload fitted into the WRX-R Rocket. The sculptures will be added into the payload via a window before launch.



Students visit the Dynamic Imaging Analytics Lab to 3D print the first sculptures that will be going into the SuGRE-1 payload.

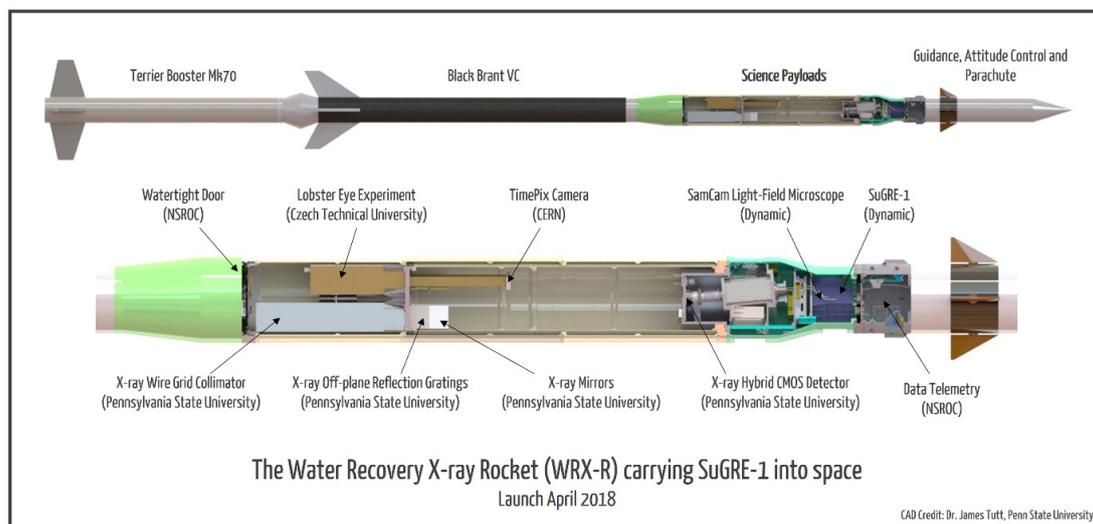
The NASA WRX-R (Water Recovery X-ray Rocket), will travel into sub-orbital space where imaging technology will record the micro-gravity experience their sculptures encounter for students to later experience on 3D headsets when back in the classroom. The rocket will return to Earth where the μ GRE-1 (pronounced 'sugar') payload will be recovered and the sculptures returned to the schools, along with a certificate authenticating they have been in space.

As many suitable entries as possible will be fitted inside the μ GRE-1 payload before launch. It is anticipated up to 1000 sculptures will be part of this exciting mission that forms an ideal STEM lesson project or after school activity. Entry is free, except for the costs involved of manufacturing the sculptures and postage to and from DIAL in Bletchley. Typically the sculptures can be made of wood, acrylic, 3-D printed resin or metal. Students are also encouraged to follow the mission progress documented on Twitter (@SuGRE_1) and YouTube.

The opportunity is open to all schools with children under the age of 18. Deadline for entries is 2nd February 2018. Requirements for the sculptures are:

- The sculpture must fit within a cuboid of 4 cm³ e.g. the size of a sugar cube.
- The sculpture may be made of any material, but suitable for taking on an airplane in hand luggage and remain solid up to a temperature of 100°C (ie. Not melt in a cup of boiling water)
- The sculpture must not weigh more than 4 grams.
- The sculpture must be able to withstand a force of 12 g.

The NASA WRX-R Black Brant IX Sounding rocket mission is led by the department of Astronomy and Astrophysics at Pennsylvania State University, whose leader Professor Randall McEntaffer and research group have a long working relationship with DIAL. The rocket's main mission is a high-energy astrophysics telescope mission looking at the Vela Supernova Remnant which aims to test cutting edge technologies including X-ray optics, diffraction gratings and detectors, as well as housing this exciting outreach project that will test new 3D imaging technologies. The rocket is currently built and in testing at NASA Wallops, Virginia.



DIAL Director Dr Neil Murray has over 12 years experience developing imaging solutions for space missions: 'We are over the moon to be gifted this fantastic and rare opportunity for kids to engage in a real life space mission! I recognise the challenge to inspire children into STEM careers and so I hope this opportunity will give valuable incite into how exciting work in this field can be. Without the encouragement of my mentor I wouldn't have envisaged this career path, but have found my flare for solving engineering problems from a young age translated well into space instrumentation and has rewarded me with this amazing career. I hope this is an opportunity for the other unlikely science engineers out there to recognise their potential'.

Leading the SuGRE-1 payload experiment is DIAL, a small science innovation company, founded in 2015, specialising in the development and delivery of high performance imaging and sensor solutions for space instrumentation and terrestrial applications. DIAL also have a dedicated focus on encouraging public engagement in science and inspiring the next generation into engineering. Recent public engagement events include MK Innovates Festival, Bytes festival and F1 in Schools. DIAL is supported by the UK Space Agency, a partner in the LUVMI lunar rover European Horizons 2020 mission, a member of the Silverstone Technology Cluster, works closely with the Open University and in Formula One.

Full mission progress including videos, pictures, updates and interviews with the WRX-R contributors can be followed on Twitter @SUGRE_1 and on YouTube (<http://bit.ly/2AvTdbk>).

For further information also visit www.SuGRE-1.com.

Ends.