

McMaster NEUDOSE

CubeSat for Dosimetry of Charged and Neutral Particles

Sponsorship Package
2015

McMaster
University



About Us

The McMaster NEUDOSE team is a group of undergraduate students that is currently designing, fabricating, and planning to launch a small satellite (CubeSat) into low earth orbit in order to study the effects of ionizing radiation on the human body. A project of this magnitude would offer a brand new learning opportunity that very few universities can provide. With support from the Department of Medical Physics & Applied Radiation Sciences, this newly developed project will give McMaster students an opportunity to enhance their academic experiences through experiential learning. The students on this team are actively participating in every step of the process, from designing, modelling and launching, and this will truly be an enriching educational experience. McMaster NEUDOSE will provide students with an enhanced learning opportunity and a unique skill-set that will supplement the academic fundamentals provided through their education at McMaster University.

Motivation

This project investigates the types of radiation doses that astronauts would experience during extravehicular activities (EVAs) while in low earth orbit. Such activities are extremely common on the International Space Station (ISS) and are predicted to dramatically increase in the near future as commercial space transportation becomes more readily available (see SpaceX). The Tissue Equivalent Proportional Counter (TEPC) being constructed as a part of this exploration will be the first of its kind; separating the radiation dose from charged and neutral particles. In this study, the biological effects will be investigated and the results are expected to have serious implications in the field of space radiation and health studies. This project may be the fuel that launches McMaster University into the forefront of space radiation and health research. It can be seen that the McMaster NEUDOSE project will greatly impact students, the McMaster community, and the field of health studies.

Sponsorship

With your sponsorship, you will be playing a pivotal role in a new learning opportunity that very few universities can provide. Your funding will allow McMaster undergraduate students to have access to the resources and expertise to accomplish this unique learning project. For your convenience, McMaster NEUDOSE would like to offer several sponsorship packages that allow you to support us with the greatest convenience and ease.

Sponsorship Packages

Sponsorship Features	Nebula Package	Star Package	Giant Star Package	Supergiant Package	Supernova Package
Company Name & Logo on Website	✓ (Medium)	✓ (Large)	✓ (Large)	✓ (Large)	✓ (Large)
Promotion via Social Media Outlets	✓ 1 Post	✓ 2 Posts	✓ 5 Posts	✓ 10 Posts	✓ Monthly
Name & Logo on Team Shirts	✗	✓	✓	✓	✓
Industry Social Premier Access	✗	✗	✓	✓	✓
Logo Engraved on Satellite	✗	✗	✗	✓	✓
Name & Logo on Event Signage	✗	✗	✗	✗	✓
Logo on NEUDOSE Office	✗	✗	✗	✗	✓
Sponsorship Value	up to \$5,000	up to \$10,000	up to \$25,000	up to \$50,000	\$50,000 or greater

Contact Us

Thank you for your consideration in sponsorship of the McMaster NEUDOSE team. By working together, McMaster NEUDOSE and your company can create a relationship that will greatly benefit your business and enrich the academic experience of the members of our team. To learn more about our project or sponsorship opportunities, please feel free to contact us at:

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We look forward to working with you!

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