



**Biog** - Deirdre Kelleghan is an Artist , Astronomer and Educator. She invents and enacts creative workshops to help bring about proactive understand of astronomy and space subjects for people of all ages. In practice her work is always engaged in the NOW. Her workshops use simple materials to splice space and astronomy events with creative processes, enhancing learning for all.

2019 April - Deirdre had an asteroid named after here in honour of her drawing workshops for children. The workshops merge astronomy and space exploration with artistic endeavours to enhance learning experiences for school children. The awarding body was The International Astronomical Union. 52682 Kelleghan (1998 DK34) This minor planet orbits in the main asteroid belt between Mars and Jupiter.

2017 December - Deirdre was honoured by the European Space Agency for her outstanding contribution to the European Space Agency's Rosetta Mission.

In 2011 Deirdre was awarded the Science Prize for Online Resources in Education. The drawing workshop was Deadly Moons ,the awarding body was the American Association for the Advancement of Science. Deadly Moons has visited New York , and has been enacted in many countries from Belgium to Vietnam. Deadly Moons workshops were carried out at Draiocht , Blackrock Castle , Birr Castle , The National Science Art Exhibition in Canada and schools all over Ireland. Deirdre's workshops are often supported by ESA and NASA with educational material.

Action Sun Deirdre's workshop to bring the Sun to Earth in real time was considered an exemplary initiative in innovation and creativity in science teaching by STENCIL 2012 (Science Teaching European Network for Creativity and Innovation in Learning.) Action Sun played a part in the opening of the UNESCO led event 'Building the Scientific Mind 2013' in Java Indonesia.

She was president of the Irish Astronomical Society from 2006 - 2009. Is an active member of The Irish Federation of Astronomical Societies , and a contributor to the PACA project (Pro-Am Collaborative Astronomy) Over the years Deirdre has been a regular speaker at Dunsink Observatory in Dublin and has been a presenter during Science Week and Space week for many years.

She is co author of Sketching the Moon an Astronomical Artists Guide. Deirdre is a contributing artist / writer for BBC Sky at Night Magazine . She is also a regular contributing writer for The Vatican Observatory Foundation.

# Let's Go To The Moon - Apollo 11

## Drawing Workshop

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During 2018 over 1000 children took part in this workshop. Over 1000 drawings were produced , many were exhibited in the venues afterward

### Rational

About twelve years ago children attending my workshops knew about the Apollo mission if they were asked. They knew at least the name of the man who first stood on the surface of the moon. Many children even knew the name of the second man on the moon. However in the last three years I have noticed that children cannot even name Apollo, they have never heard of it . This workshop will make sure they do know about it and know the names of the men who created this epic history .

July 20th, 2019 will be the 50th anniversary of the first moon landing. It was and still is a significant moment in the history of space exploration. This will be a globally celebrated event. My workshop will tell the story of Apollo 11 via a presentation and a drawing session.

- One of the learning outcomes will be that children attending will learn and forever know where Apollo 11 landed.
- They will be able to look up at the moon, point to the exact place and name the landing area where men from Earth walked for the first time 50 years ago.
- The children will also get the experience of using soft pastels with tuition.
- The children will become familiar with the A 7-L pressure suit and the bravery of the men that wore it and survived on the moon.
- The technology of the Apollo 11 Saturn V rocket will be explained
- Irish connections to Apollo 11 are featured
- Encouragement for the children to perhaps work in the space business within Ireland will be mentioned.

The workshop will begin with a 25-minute presentation about the Apollo 11 Moon Landing. An Apollo 11 drawing session will then start with tuition, encouragement and suggestions. Each child will produce an A3 (16X12 inch) pastel drawing of an aspect of the mission.

A life-size Buzz Aldrin figure present in the room will help explain the astronaut's suits and how they survived their expedition to the moon. At the end of the workshop, a specially designed A3 info-graphic learning sheet will be provided for each child to further enhance their experience. As this may take place in a library, a selection of books about the Apollo Mission or similar books should be on prominent display. Where possible an exhibition of the children's drawings could be held so as to bring their extended families and friends into the library to see their work.



## Workshop for 2019

### Let's Go To the Moon - Apollo 11

Duration 1 hour

Primary, Second Level or  
Family Audience

All materials provided

Hand wipes provided

Stickers from ESO for all

### Required for workshop

A room that can be darkened in daylight

Tables for the children to work on that can accommodate a 16X12 inch paper sheet per child. Digital projector, screen and sound ( if not available I can provide them)

The workshop will begin with a 20 minute presentation about the Apollo 11 Moon Landing. A drawing session will then start with tuition, encouragement and suggestions. This workshop will ensure the attending audience will know how to pick out the landing area of Apollo 11 on the moon with their eyes.

A life size Buzz Aldrin in the room will help bring the story to life.

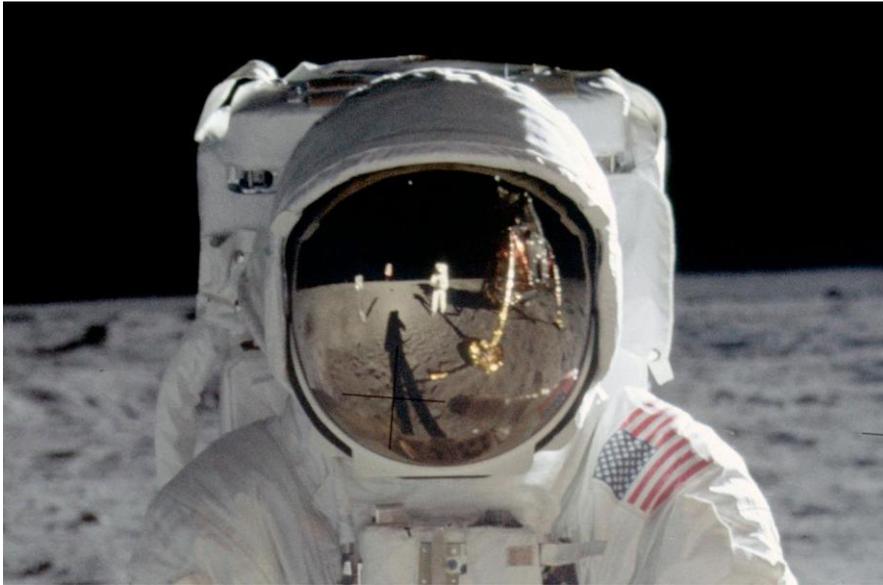


Image credit NASA



Let's Go To The Moon - Apollo 11 Maynooth Library Kildare



Axis Theatre Ballymun Dublin

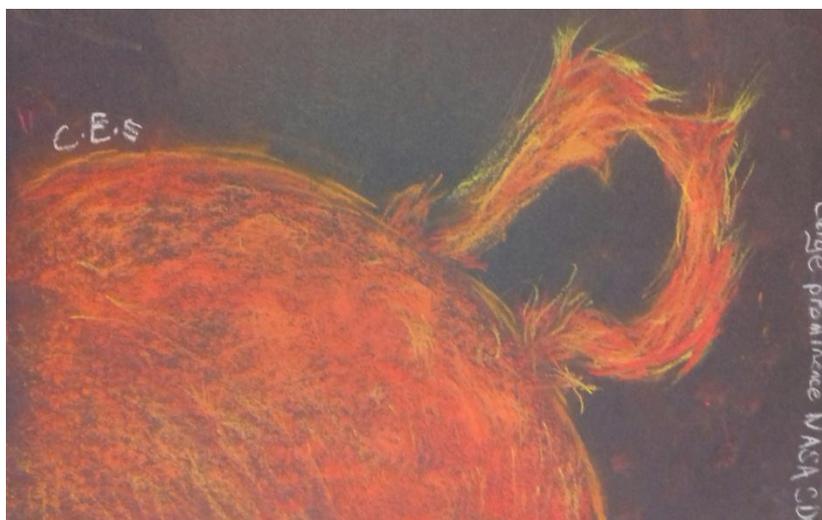


Buzz Aldrin by a child in Santa Maria College Louisburgh



Apollo 11 Command Module by a teenager at The National Museum of Ireland

# Our Sun and Other Stars Drawing Workshop



## Workshop for 2019

### Our Sun and other Stars

Duration 1 hour

Primary or Family

Audience

All materials provided

Hand wipes provided

Solar prom drawing by a young child.

## Required for workshop

A room that can be darkened in daylight

Tables for the children to work on that can accommodate a 16X12 inch paper sheet per child. Digital projector, screen and sound ( if not available I can provide them)

The workshop will begin with a 20 minute presentation about our Sun. A drawing session will then start with tuition, encouragement and suggestions. This workshop will look at our sun in detail, discuss where stars come from and why they are different colours. Notes on constellations for all. Stickers from ESO for all.



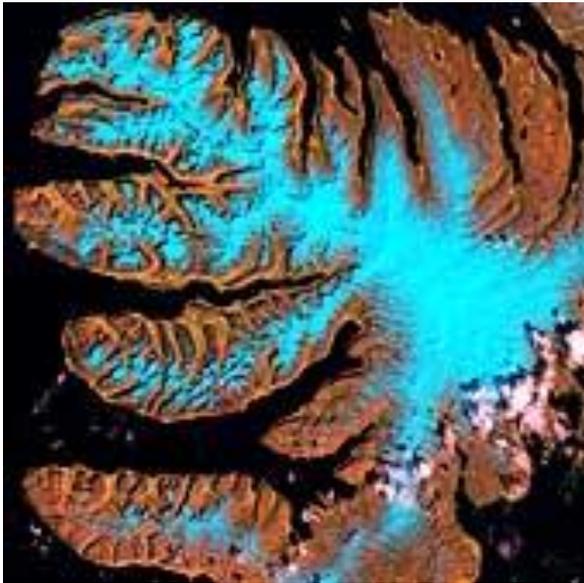
Solar drawing by Deirdre Kelleghan

# **The Dark Night Rises** Drawing Workshop

A presentation about appreciating the landscape around us and the dark sky above us. Appreciating the how ancient peoples had respect for the night sky and how they are an example to us all in the 21st Century.

Imagine if we are the only creatures of our kind in the entire universe. We should, therefore, make it our business to sustain the Earth's resources. The dark night is a resource gifted to us, a precious reality check to our place within the universe. It is up to us to refrain from polluting the dark sky with overt artificial light. We need to regain respect for the night sky above our heads. We must protect and nurture this gift and use it to educate people. Citizen science applications to help children do some simple research with their mobile phones will be featured. Climate change and protection of the planet will be included.

A drawing session based on beautiful images of the Earth from space will follow the presentation.ESO stickers for all attending they say "The Universe is my Playground"



Looking at Earth from Space - NASA