Dear UWM Planetarium friends,

This is an exciting time for us. We are putting the finishing touches on Northern Lights: I love this program both because of its beauty and because people want to know more about them. I will work with a graduate student to investigate best practices of explaining the cause of aurora. My wonderful staff and I are continuing the 50th anniversary celebrations with a Rock & Rockets program that should be fun for all.

We are hoping to raise $15,000 by the end of the year and thanks to your generous support we already have raised $13,500! Can you please help us reach our goal of $150 a week until the end of the year? You can give in person when you come to the UWM Planetarium, electronically (http://uwm.edu/planetarium/give/), or by mail.

Hope to see you soon under the stars,
Jean

jcreight@uwm.edu

Northern Lights
*Fridays, November 4-December 16, 2016*
7:00-7:55 pm | $4

Enjoy the radiance of the night sky in Northern Lights, the UWM Planetarium’s newest show. See colorful displays of dancing lights as Director Jean Creighton gives an exciting overview on how the aurora borealis happens. As one of our most popular Friday Night Shows, this brand new version of Northern Lights will not disappoint! The journey will unfold Fridays, November 4 through December 16, 2016. Tickets are $4 and can be purchased 30 minutes before the beginning of the show.

Rock & Rockets

*Sunday, November 13*
3:00 - 5:30 | FREE!

Pizza courtesy of Roman Candle Pizzeria

A far-out 1960s-themed party with stars and music. The event will include fun music from the era featuring The Beatles, The Rolling Stones, The Temptations and The Supremes. There will be faux cocktails inspired by the era, a photo gallery of the Planetarium’s beginnings and a special show celebrating the culture and achievements of the 1960s. There will be shows at 3:15, 4:00, and 4:45 pm!
**STARGAZING**
Join us on the observing deck as we peer through telescopes at the stars, planets, and moons. Visit our website for directions to the observing deck.

8-9pm • November 2, 9, 16, 30

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**Nov. 2**
**Active Galactic Nuclei (I)**
Speaker: Dr. Joe Swiggum, Postdoctoral Researcher

> These ultra-luminous central regions of galaxies emit radiation from the vicinity of their supermassive black holes as they accrete matter. They are the most luminous continuous sources of light in the universe, which makes them some of the most distant observable objects in the universe. The study of AGN is one of the largest fields in modern astronomy.

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**Nov. 9**
**Active Galactic Nuclei (II)**
Speaker: Joseph Simon, Graduate Student

> Following last week's intro to Active Galactic Nuclei, today's talk will explore how AGN are used to study large scale-structure in the universe, and put constraints on models for how galaxies formed and evolve through time.

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**Nov. 16**
**Active Galactic Nuclei (III)**
Speaker: Kristina Islo, Graduate Student

> Science fiction is a reflection and a progenitor of scientific ideas.

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**Where is our Rocket now?**

Our rocket is continuing to climb higher and higher! With your kind donations we will be able to pass by even more milemarkers. Thanks to all of your support the planetarium has raised an incredible $13,500! We hope that by the end of the year to reach a full $15,000. Donations of any size help us to keep providing inexpensive shows to the public and host tons of different events! Please donate online http://uwm.edu/planetarium/give/ or mail a check made to UWM Foundation (#2712 Manfred Olson Planetarium) to UWM Physics/Planetarium, P.O. Box 413, Milwaukee, WI 53201-0413. Thank you!

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**Life of a Star**
**Fridays, January 13-February 24, 2017**
7-7:55pm | $4

A star is a furnace for life in our cold galaxy. They can live for billions of years and some can explode in some of the most massive explosions in the universe, supernova. Come enjoy the story behind these giants and get a better glimpse into our closest star, the Sun! Life of a Star will run on Fridays from January 13 through February 24 from 7:00 to 7:55 pm.

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**Early Spring Show**

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**AstroBreak**
Select Wednesdays | FREE
12:15-12:45 p.m.