

We're Coming to Your Town!



Star Tour USA 2020 has launched across America and will be coming to your area this year. **Kevin Manning**, tour guide to the stars, is nothing if not impassioned about his mission. Kevin's goal is to bring the excitement and wonder of astronomy to the minds and hearts of people who are not inclined to understand or pay much attention to the science. **Look Up to the Stars** offers **workshops for educators on using exciting astronomy activities as a catalyst to learning for an interdisciplinary approach to science education**. Join this popular nationwide event, and be a part of a scientific literacy movement that is sweeping the nation and that aims to open new galaxies of inquiry and possibilities for all of your teachers and students.

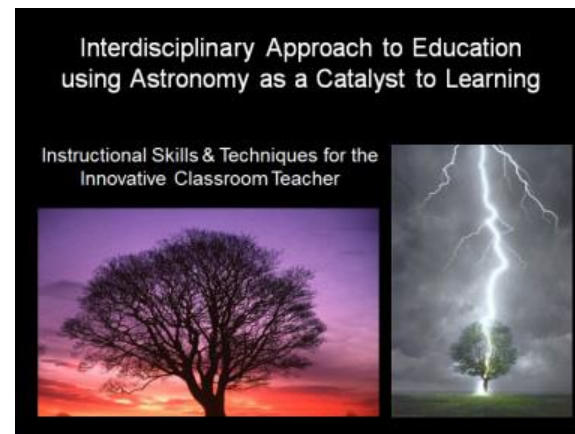
Star Tour USA 2020 delivers:

- An engaging program for all ages that boosts scientific literacy and inquiry
- Access to robotic telescopes to take photos of planets, galaxies, and nebulae and use image processing tools to bring out detail in these photos the same way that professional astronomers do
- Construction of a Cosmic Quilt

Workshops for Educators

Based on a model he created at Tufts University, Kevin has been offering **workshops for educators on using astronomy as an interdisciplinary approach to education**. As a result of attending this workshop, participating teachers shall be able to:

- Encourage students to become excited and interested in learning
- Work cooperatively with teachers of other disciplines
- Grow in an environment that stimulates integration and innovation
- Appreciate a holistic approach to learning
- Motivate and enable students to connect using ReadWriteThink Webbing as an interactive tool
- Create, develop and implement Cross-Curricular Thematic Units
- Use alternative assessment strategies such as checklists, rubrics and portfolios



Cosmic Images across the Spectrum

Teachers of the local district's schools will be given a workshop on how to use Astronomy as an Interdisciplinary Approach to Education. Training will include the use of NASA's **MicroObservatory** (MO) taking images and using the image processing software so they can, in turn, teach their students to do the same, and then create thematic units that utilize the talents of students in various disciplines and using alternative assessment strategies such as rubrics and portfolios. Art students can paint or draw a particular object from MO, Math students pinpoint size & scale, distance and celestial coordinates, English students use creative writing or poetry to describe the object, History, Social Studies and Foreign Language students form a timeline of the U.S. vs. other countries in discovery, impact and understanding of what was happening at the time, such as French influence from Charles Messier, and Science students explore the physics and chemistry data of the object recorded from telescopes and spectroscopy. Information for each object from all disciplines will be compiled onto a page or "block" and submitted to be added to a **"Cosmic Quilt."** Color poster-sized printouts of all blocks submitted can be assembled together for the physical Cosmic Quilt and put on display as an exhibit for all to see at the school. All the contributors' names and input will be recognized at the exhibit.



One of America's favorite astronomers and well-known speakers, Kevin Manning, travels extensively across the nation engaging people of all ages in unforgettable and fascinating explorations of our universe.

“Our attendance was phenomenal and everyone evaluated your program a great success.”

“Thank you, again, for the awesome ‘Astronomy for Everyone’ presentation you did. It was very engaging, informative and entertaining.”

“You had something for everyone — all ages could enjoy it, from the fantastic array of photos to the detailed explanations of the heavens.”

“There has never been a presentation of this caliber in the many years I've worked here. The number attending broke an all-time record.”

“I’m thrilled that we had so many people of all ages attend. You were engaging, enthusiastic, obviously an expert at the information you were presenting but still able to convey it at a level appropriate for anyone, and funny.”

“I learned more from this program than I did while attending an entire semester course on astronomy at my local college.”

Look Up to the Stars

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Capture the Colorful Cosmos
astrophotography using citizen telescopes • International year of Astronomy

Welcome to **microObservatory**

The MicroObservatory Online Telescope Network is operated by the Harvard Smithsonian Center for Astrophysics, with funding from the NSF and NASA.

Look Up to the Stars
 Star Tour USA 2019
 Promoting Scientific Literacy from Coast to Coast!

presents

Cosmic Images across the Spectrum: an Interdisciplinary Approach to Science Education

A Workshop for Innovative Educators

