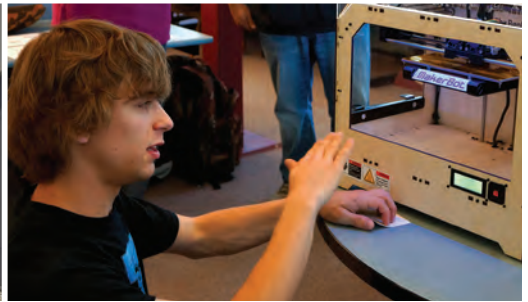


Family Science & Astronomy Festival + Makerspace



Saturday, October 4, 2014 • 2–11 pm



College of San Mateo

Family Science & Astronomy Festival + Makerspace Program

EVENT		PRESENTED BY	TIME	LOCATION
CSM Library Book Sale	●	CSM Library	10 am – 6 pm	CSM Library
Planetarium Show	●	Darryl Stanford	2 pm	Planetarium
Catch the Wave	●	Violeta Grigorescu & Kathi Nash	2 pm	36-109
Exploring Life on Planet Earth/Biology Lab	●	Kathy Diamond & Paul Hankamp	2 pm	36-200
It's All in Your Head!	●	Santiago Perez	2 pm	36-217
Color Awesome!	●	Santiago Perez	2 pm	36-321
Geologic Wonders Quiz/Contest	●	Linda Hand	online	see poster for online address
Jewelry Making	●	Diana Challis	2–4:30 pm*	CSM Library
Build a City	●	CSM Engineering Club, CSM Architecture Club & Laura Demsetz	2–5:30 pm*	19-107
Lego Seismic Shake Table Demonstration	●	CSM Architecture Club	2–5:30 pm*	Building 19 Lobby
Solar Home Demonstration	●	Peter Todd, SunPower Corporation	2–5:30 pm*	CSM Library
String Art	●	Lia Thomas	2–5:30 pm*	CSM Library
3D printing, Laser Cutting, ecoSTEM house	●	Chris Schlesselman, Paton Group & CSM Engineering Club	2–5:30 pm*	CSM Library
Meteors and Comments, The Sun-Solar Observing, Making Craters	●	San Mateo County Astronomical Society (SMCAS)	2–6 pm*	Outdoors Building 36
Construct Planispheres, Galileoscopes	●	SMCAS	2–6 pm*	36-112
How a Telescope Works, Finding Planets and other Stars, Solar System Model, Gravity and Black Holes	●	San Mateo County Astronomical Society (SMCAS)	2–6 pm*	36-114
Space Theatre	●	SMCAS	2–6 pm*	36-125
Make Solar Cars	●	Steve Gonzales	2–6 pm*	19-24
Planetarium Show	●	Darryl Stanford	3 pm	Planetarium
Catch the Wave	●	Violeta Grigorescu & Kathi Nash	3 pm	36-109
Exploring Life on Planet Earth/Biology Lab	●	Kathy Diamond & Paul Hankamp	3 pm	36-200
It's All in Your Head!	●	Santiago Perez	3 pm	36-217
Color Awesome!	●	Catherine Ciesla	3 pm	36-321
Cyanotypes: Printmaking with the Sun	●	Beth Todd	3–5:30 pm*	CSM Library
Make Buttons	●	Bryan Gerbig	3–5:30 pm*	CSM Library
Kite Building/Paper Helicopters	●	CSM Makerspace Club	3–5:30 pm*	CSM Library/Building 19
Make Journals & Notebooks with New and Recycled Materials	●	Allison Hughes	3–5:30 pm*	CSM Library

● Library Event ● Astronomy Event ● Science Event ● Makerspace Event *Asterisk by event time signifies a drop-in event

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EVENT		PRESENTED BY	TIME	LOCATION
Make Terrariums	●	Katherine Becvar	3–5:30 pm*	CSM Library
Planetarium Show	●	Darryl Stanford	4 pm	Planetarium
Catch the Wave	●	Violeta Grigorescu & Kathi Nash	4 pm	36-109
Exploring Life on Planet Earth/Biology Lab	●	Kathy Diamond & Paul Hankamp	4 pm	36-200
It's All in Your Head!	●	Santiago Perez	4 pm	36-217
Color Awesome!	●	Catherine Ciesla	4 pm	36-321
Planetarium Show	●	Darryl Stanford	5 pm	Planetarium
Catch the Wave	●	Violeta Grigorescu & Kathi Nash	5 pm	36-109
Exploring Life on Planet Earth/Biology Lab	●	Kathy Diamond & Paul Hankamp	5 pm	36-200
It's All in Your Head!	●	Santiago Perez	5 pm	36-217
Color Awesome!	●	Santiago Perez	5 pm	36-321
Planetarium Show	●	Darryl Stanford	6 pm	Planetarium
Keynote Speaker + Reception: Dr. Patricia Burchat (<i>see below</i>)	●	Math Science Division	7–8:50 pm	CSM Theatre
CSM Observer - Jazz Under the Stars (<i>weather permitting</i>)	●	Dean Drumheller	9–11 pm	CSM Observatory

The Dark Side of the Universe—Dark Matter and Dark Energy

Dr. Patricia Burchat ~ 7 pm ~ CSM Theatre

In recent decades, cosmology has become an observational science that has led to two mysterious observations: about a quarter of the energy density of the universe is in the form of “dark matter,” which gravitationally attracts but is otherwise invisible, and about two-thirds is “dark energy,” which causes space itself to expand at an ever-increasing rate. Only a small fraction of the energy in the universe is due to matter that we understand! In this visual presentation, we will explore the evidence for dark matter and dark energy, and some of the experiments being developed to investigate its fundamental nature.

Patricia Burchat is the Gabilan Professor of Physics at Stanford University. She studies differences in the time evolution of matter and antimatter created at the SLAC National Accelerator Laboratory, and the gravitational bending of light by massive clusters of galaxies in the universe. She has held several leadership positions in the 550-person international BABAR Collaboration at SLAC and served as Chair of the Physics Department at Stanford from 2007-2010. She was appointed as a Bass University Fellow in Undergraduate Education in 2004, and a Fellow of the American Physical Society in 2001. She was granted a Guggenheim Fellowship in 2005. Prof. Burchat was awarded the Dean’s Award for Distinguished Teaching in 1997 and the Walter J. Gores Award for Excellence in Teaching in 2007.



Thanks for attending!

Food trucks are available in Marie Curie Parking Lot 5.

Restrooms are available in:

Theatre Building 3
Library Building 9
North Hall Building 18
Emerging Technologies Building 19
Science Building 36

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Family Science & Astronomy Festival + Makerspace is sponsored by:

CSM Math/Science Division

