BIANCHI PLANETARIUM LECTURES PRESENTED IN 2015

Date of the lecture: Nov-20-2015  
Title of the lecture: We are at Pluto – The New Horizons Mission.  
Speaker: Dr. Bonnie J. Burrati, JPL

Date of the lecture: Oct-15-2015  
Title of the lecture: To Boldly Go…, Well You Know: NASA’s Dawn Mission to the Asteroid Belt.  
Speaker: Dr. Marc Rayman, JPL

Date of the lecture: Sep-18-2014  
Title of the lecture: An Introduction to Eclipse Science and Travel.  
Speaker: Mr. Matt Ventimiglia, CSUN

Date of the lecture: Apr-02-2015  
Title of the lecture: Lord of the Rings: Cassini Mission to Saturn and its Moons.  
Speaker: Dr. Rosaly Lopes, JPL

Date of the lecture: Feb-26-2015  
Title of the lecture: We are Almost at Pluto – the New Horizons Mission.  
Speaker: Dr. Bonnie Buratti, JPL

Date of the lecture: Feb-13-2015  
Title of the lecture: To Boldly Go: A Hollywood History of Space Travel.  
Speaker: Mr. Matt Ventimiglia, CSUN

Date of the lecture: Jan-30-2015  
Title of the lecture: Comet-Chaser ROSETTA and its Wild Bounce at Comet Churuymov-Gerasimenko.  
Speaker: Dr. Claudia Alexander, JPL

*************************************************************************************
Date of the lecture: Nov-21-2014
Title of the lecture: The Orbiting Carbon Observatory-2.
Speaker: Dr. David Crips, Cal Tech

Date of the lecture: Nov-07-2014
Title of the lecture: MAVEN – The Latest Mission to Mars.
Speaker: Dr. Richard Zurek, JPL

Date of the lecture: Oct-17-2014
Speaker: Dr. John Brophy, JPL

Date of the lecture: Sep-05-2014
Title of the lecture: Voyager: History’s Greatest Explorers.
Speaker: Dr. Suzanne Dodd, JPL

Date of the lecture: May-02-2014
Title of the lecture: From IRAS to Spitzer and beyond: 30 years of Space Infrared Astronomy
Speaker: Dr. Luisa Rebull, Cal Tech

Date of the lecture: Mar-28-2014
Title of the lecture: An Introduction to Eclipse Science and Travel
Speaker: Mr. Matt Ventimiglia, CSUN

Date of the lecture: Mar-14-2014
Title of the lecture: The Mystery of Dusty Extrasolar Planetary Systems.
Speaker: Dr. Farisa Morales, JPL and CSUN
<table>
<thead>
<tr>
<th>Date of the lecture</th>
<th>Title of the lecture</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>Nov-22-2013</td>
<td>Mt. Wilson Observatory – History and Importance.</td>
<td>Ms. Angie Cookson, CSUN</td>
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<tr>
<td>Nov-08-2013</td>
<td>Radar Imaging of Near-Earth Asteroids.</td>
<td>Dr. Lance Benner, JPL</td>
</tr>
<tr>
<td>Oct-25-2013</td>
<td>An Update on Curiosity Rover on Mars.</td>
<td>Dr. Jennifer Trosper, JPL</td>
</tr>
<tr>
<td>Sep-20-2013</td>
<td>Search for Meteorites on Union Glacier in Antarctica.</td>
<td>Mr. Matt Ventimiglia, CSUN</td>
</tr>
<tr>
<td>May-03-2013</td>
<td>Core Formation in Terrestrial Planets from Study of Laboratory Fluid Experiments</td>
<td>Dr. Dayanthie Weeraratne, CSUN</td>
</tr>
<tr>
<td>Mar-01-2013</td>
<td>VOYAGER – 35 and Half Years and Still Going.</td>
<td>Ms. Trina Ray, JPL</td>
</tr>
<tr>
<td>Feb-15-2013</td>
<td>ENDEAVOR (OV-105).</td>
<td>Mr. Matt Ventimiglia, CSUN</td>
</tr>
</tbody>
</table>
BIANCHI PLANETARIUM LECTURES PRESENTED IN 2012

Date of the lecture: Nov-16-2012
Title of the lecture: The Inside of Moons and Asteroids from Measuring Gravity.
Speaker: Mr. Sami Asmar, JPL

Date of the lecture: Nov-02-2012
Title of the lecture: Solar Science at CSUN’s San Fernando Observatory.
Speaker: Ms. Angie Cookson CSUN

Date of the lecture: Oct-05-2012
Title of the lecture: Curiosity: Mars Next Rover.
Speaker: Mr. Matt Wallace, JPL

Date of the lecture: May-10-2012
Title of the lecture: Venus in Transit.
Speaker: Mr. Matt Ventimiglia, CSUN

Date of the lecture: Apr-27-2012
Title of the lecture: Chasing Shadows: The Kepler Mission and the Impending Revolution How We View Our Earth.
Speaker: Dr. David Ciardi, Cal Tech

Date of the lecture: Mar-16-2012
Title of the lecture: Sky Lore: The Unification of Cultures.
Speaker: Mr. Jeremy Amarant, Director, Sage Planetarium, Palmdale

Date of the lecture: Mar-02-2012
Speaker: Dr. Ashwin Vasavada, JPL

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### BIANCHI PLANETARIUM LECTURES PRESENTED IN 2011

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<tr>
<th>Date of the lecture</th>
<th>Title of the lecture</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>Dec-02-2011</td>
<td>Global Upheaval in the Atmospheres of Jupiter and Saturn.</td>
<td>Dr. Glenn Orton, JPL</td>
</tr>
<tr>
<td>Nov-17-2011</td>
<td>To Boldly Go, Well You Know – NASA’s Dawn Mission to Asteroids.</td>
<td>Dr. Marc Rayman, JPL</td>
</tr>
<tr>
<td>Nov-04-2011</td>
<td>Climate Challenge Impact on Civilization: Lesson from Space Data and Archaeology</td>
<td>Dr. Ron Blom, JPL</td>
</tr>
<tr>
<td>Sep-23-2011</td>
<td>How We Got to Saturn, and What Cassini Is Finding.</td>
<td>Mr. Dave Doody, JPL</td>
</tr>
<tr>
<td>May-12-2011</td>
<td>The JUNO Mission to Jupiter.</td>
<td>Mr. Steven Matousek, JPL</td>
</tr>
<tr>
<td>Apr-14-2011</td>
<td>Deep Impact and Stardust: How NASA Re-Used Two Veteran Spacecraft for New Comet Exploration.</td>
<td>Dr. Tim Larson, JPL</td>
</tr>
<tr>
<td>Mar-18-2010</td>
<td>Total Solar Eclipse at the Navel of the World.</td>
<td>Mr. Matt Ventimiglia, CSUN</td>
</tr>
<tr>
<td>Feb-18-2011</td>
<td>Extrasolar Planets.</td>
<td>Mr. John Hodgson, CSUN</td>
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</tbody>
</table>
BIANCHI PLANETARIUM LECTURES PRESENTED IN 2010

Date of the lecture: Nov-19-2010
Title of the lecture: Robotic Solar System Exploration: Progress and Challenges.
Speaker: Mr. Larry Mathies, JPL

Date of the lecture: Oct-22-2010
Title of the lecture: Using NASA Satellites to Study the Earth’s Climate.
Speaker: Dr. Eric Fetzer, JPL, Caltech

Date of the lecture: Oct-08-2010
Title of the lecture: Mapping the Infrared Sky with WISE.
Speaker: Dr. Peter Eisenhardt, JPL, Caltech

Date of the lecture: Sep-24-2010
Title of the lecture: 100 Years of Discovery at Mt. Wilson Observatory.
Speaker: Mr. Mike Simmons, President of AWB

Date of the lecture: May-07-2010
Title of the lecture: What is New with Comets?
Speaker: Dr. Dennis Bodewits, GSFC

Date of the lecture: Apr-14-2010
Title of the lecture: Strolling through the Heavens – An Introduction to the Constellations of the Winter and Spring Skies.
Speaker: Mr. John Hodgson, CSUN

Date of the lecture: Mar-26-2010
Title of the lecture: The Hidden Oceans of Europa.
Speaker: Dr. Robert Pappalardo, JPL

Date of the lecture: Mar-12-2010
Title of the lecture: An Oriental Eclipse for the Century.
Speaker: Mr. Matt Ventimiglia, CSUN

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<table>
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<th>Date of the lecture</th>
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<tr>
<td>Dec-08-2009</td>
<td>The Really Big Picture: Things We Know about the Universe, and How We Know Them.</td>
<td>Dr. Charles Lawrence, JPL</td>
</tr>
<tr>
<td>Nov-06-2009</td>
<td>Strolling through the Heavens – An Introduction to the Constellations of the Summer and Autumn Skies.</td>
<td>Mr. John Hodgson, CSUN</td>
</tr>
<tr>
<td>Oct-23-2009</td>
<td>Rainbows, Red Sunsets and Rocket Science Revisited.</td>
<td>Dr. David J. Diner, JPL</td>
</tr>
<tr>
<td>May-08-2009</td>
<td>Cassini Visits Saturn’s Active Moon Enceladus.</td>
<td>Dr. Amanda Hendrix, JPL</td>
</tr>
<tr>
<td>Apr-24-2009</td>
<td>Strolling through the Heavens – An Introduction to the Constellations of the Winter and Spring Skies.</td>
<td>Mr. Andrew Vandenberg and Mr. John Hodgson, CSUN</td>
</tr>
<tr>
<td>Mar-13-2009</td>
<td>The Search for Planets Orbiting Nearby Stars.</td>
<td>Dr. Damian Christian, CSUN</td>
</tr>
</tbody>
</table>
BIANCHI PLANETARIUM LECTURES PRESENTED IN 2008

Date of the lecture: Oct-24-2008
Title of the lecture: Arctic Adventure: Chasing a Total Solar Eclipse in the Land of Midnight Sun.
Speaker: Mr. Matt Ventimiglia, CSUN

Date of the lecture: Oct-17-2008
Title of the lecture: Building Palomar’s Big Eye.
Speaker: Dr. Scott Kardel, Cal Tech

Date of the lecture: Oct-03-2008
Title of the lecture: The Dark Side of Sunspots.
Speaker: Dr. Debi Prasad Choudhary, CSUN

Date of the lecture: Apr-25-2008
Title of the lecture: Exploring the Nature of Planets Around Other Stars.
Speaker: Dr. Brad Hansen, UCLA

Date of the lecture: Mar-28-2008
Title of the lecture: Finding Planets around Other Stars.
Speaker: Dr. David Ciardi, Michelson Science Center and Cal Tech

Date of the lecture: Mar-07-2008
Title of the lecture: Predicting Climate Change: Removing the Mystery.
Speaker: Dr. Duane Waliser, Cal Tech and JPL

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BIANCHI PLANETARIUM LECTURES PRESENTED IN 2007

Date of the lecture: Nov-09-2007  
Speaker: Mr. Matt Ventimiglia, CSUN

Date of the lecture: Oct-12-2007  
Title of the lecture: The Dawn Mission to the Asteroid Belt.  
Speaker: Dr. Mark Rayman, JPL

Date of the lecture: Sep-28-2007  
Title of the lecture: Voyager: 30 years in Space.  
Speaker: Dr. Alan Cummings, Cal Tech and JPL

Date of the lecture: May-11-2007  
Title of the lecture: The Last Days of the Earth.  
Speaker: Dr. Mark Morris, UCLA

Date of the lecture: Apr-27-2007  
Title of the lecture: Phoenix Mars Scout Mission and the Search for Extant Water Ice.  
Speaker: Dr. Deborah Bass, JPL

Date of the lecture: Apr-13-2007  
Title of the lecture: Water in the Saturn System.  
Speaker: Ms. Trina Ray, JPL

Date of the lecture: Mar-09-2007  
Title of the lecture: From Continental Drift to the Theory of Plate Tectonics.  
Speaker: Dr. Elizabeth Nagy-Shadman, CSUN

Date of the lecture: Feb-23-2007  
Title of the lecture: Comet Dust in Captivity: What Have We Learned From? The Stardust Mission.  
Speaker: Dr. Kevin McKeegan, UCLA

Date of the lecture: Feb-09-2007  
Title of the lecture: The Planet Club: Why Pluto Got Kicked Out, and Why Earth is So Special.  
Speaker: Dr. Amanda Mainzer, JPL

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BIANCHI PLANETARIUM LECTURES PRESENTED IN 2006

Date of the lecture: Nov-17-2006  
Title of the lecture: Meteorites and Asteroids.  
Speaker: Dr. Alan Rubin, UCLA

Date of the lecture: Nov-03-2006  
Title of the lecture: Mysterious Titan.  
Speaker: Ms. Trina Ray, JPL

Date of the lecture: Oct-06-2006  
Title of the lecture: Astronomy in Ancient Mediterranean: Chasing the Total Eclipse of March-29-2006.  
Speaker: Mr. Matt Ventimiglia, CSUN

Date of the lecture: Sep-22-2006  
Title of the lecture: Mars: The Adventure of Exploring the Red Planet.  
Speaker: Dr. David Senske, JPL

Date of the lecture: May-19-2006  
Title of the lecture: The Magnificent Voyage of Stardust.  
Speaker: Mr. Darren Baird, JPL and UCLA

Date of the lecture: May-12-2006  
Title of the lecture: Ultraviolet Photolysis of Amino Acids in Crystalline Water Ice: Can They Survive on Europa.  
Speaker: Drs. Grazyna Orzechovska and Jay Goguen, JPL

Date of the lecture: May-09-2006  
Title of the lecture: Phoenix After MER: From the Equator to the Poles of Mars.  
Speaker: Dr. Albert Haldemann, JPL

Date of the lecture: Apr-124-2006  
Title of the lecture: Winning the Cosmic Lottery.  
Speaker: Dr. Paul Weissman, JPL

Date of the lecture: Mar-24-2006  
Title of the lecture: The Latest from NASA’s Spitzer Space Telescope: From Planets to Deep Space.  
Speaker: Dr. Varoujan Goorjian, JPL and Cal Tech

Date of the lecture: Mar-10-2006  
Title of the lecture: The Worlds of the Outer Solar System.  
Speaker: Dr. David Senske, JPL

Date of the lecture: Feb-17-2006  
Title of the lecture: The Latest Results from Cassini: Enceladus.  
Speaker: Mr. David F. Coppedge, JPL
BIANCHI PLANETARIUM LECTURES PRESENTED IN 2005

Date of the lecture: Dec-9-2005
Title of the lecture: Age and Evolution of the Earth: Three Revolutions in One Century.
Speaker: Dr. James Powell, USC

Date of the lecture: Dec-2-2005
Title of the lecture: Astronomy and the Chinese Calendar.
Speaker: Dr. Paul Lee, CSUN

Date of the lecture: Nov-18-2005
Title of the lecture: Special Relativity for Non-Scientists.
Speaker: Dr. Skip Newhall, JPL

Date of the lecture: Nov-4-2005
Title of the lecture: What Makes Planets Habitable?
Speaker: Dr. David Stevenson, Cal Tech

Date of the lecture: Oct-28-2005
Title of the lecture: The War of the Worlds: A Brief History of Martian Invasion.
Speaker: Mr. Matt Ventimiglia, CSUN

Date of the lecture: Oct-21-2005
Title of the lecture: High Resolution Astronomy near Downtown Los Angeles: Recent Results from the CHARA Array.
Speaker: Dr. David Berger, University of Michigan

Date of the lecture: Oct-14-2005
Title of the lecture: SIM – The Next Great Observatory.
Speaker: Mr. Stephen Edberg, JPL and Cal Tech

Date of the lecture: Sep-30-2005
Title of the lecture: Spirit and Opportunity: The Corps of Discovery for Mars.
Speaker: Dr. John Callas, JPL

Date of the lecture: Sep-23-2005
Title of the lecture: The Cassini/Huygens Mission to Saturn.
Speaker: Mr. Robert Mitchell, JPL

Date of the lecture: Sep-9-2005
Title of the lecture: Hubble Ultra Deep Field of Galaxies.
Speaker: Dr. Michael Corbin, ASU and STScI

Date of the lecture: June-24-2005
Speaker: Mr. David F. Coppedge, JPL
Date of the lecture: May-20-2005
Title of the lecture: The Solar Eclipse of April-8-2005.
Speaker: Mr. Matt Ventimiglia, CSUN

Date of the lecture: May-13-2005
Title of the lecture: In Search of the Cause of the End of the Dinosaur Era:
The Story of the Chixculub Impact Crater.
Speaker: Dr. Adriana Ocampo, JPL, Cal Tech

Date of the lecture: May-6-2005
Title of the lecture: Fact and Fiction in Cosmology.
Speaker: Dr. Edward (Ned) Wright, UCLA

Date of the lecture: April-29-2005
Title of the lecture: Pluto, Sedna, and the Edge of the Solar System.
Speaker: Dr. Michael Brown, Cal Tech

Date of the lecture: April-22-2005
Title of the lecture: Secret of Sound and Music.
Speaker: Dr. David Bach, CSUN

Date of the lecture: April-15-2005
Speaker: Dr. Nathan Bridges, JPL

Date of the lecture: April-1-2005
Title of the lecture: Galaxy Train Wrecks.
Speaker: Dr. Sarah Gallagher, UCLA

Date of the lecture: March-18-2005
Title of the lecture: Deep Impact: A Mission to Understand the Heart of a Comet.
Speaker: Dr. Donald Yeomans, JPL

Date of the lecture: March-04-2005
Title of the lecture: Cosmic Jets: New Building Blocks of the Universe.
Speaker: Dr. David Meier, JPL

Date of the lecture: February-25-2005
Title of the lecture: Cassini at Saturn, Huygens on Titan.
Speaker: Dr. Kevin Grazier, JPL

Date of the lecture: February-11-2005
Title of the lecture: The Moon: Our Nearest Neighbor in Space.
Speaker: Dr. Bonnie Buratti, JPL

Date of the lecture: February-04-2005
Title of the lecture: When the Pacific Speaks, The World Listens.
Speaker: Dr. William Patzert, JPL
Date of the lecture: January-28-2005
Title of the lecture: The Perils of Living in Space: An Introduction to Space Weather
Speaker: Dr. Mark Moldwin, UCLA

Date of the lecture: January-21-2005
Title of the lecture: Mount Wilson Observatory—Then and Now, a Centennial Celebration.
Speaker: Mr. Don Nicholson, Mount Wilson Observatory Association and Institute

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Date of the lecture: December-10-2004  
Title of the lecture: Search for the Christmas Star.  
Speaker: Mr. John Mosley, Griffith Observatory

Date of the lecture: December-03-2004  
Title of the lecture: Search for the Christmas Star.  
Speaker: Mr. John Mosley, Griffith Observatory

Date of the lecture: November-19-2004  
Title of the lecture: The Galaxy Evolution Explorer.  
Speaker: Dr. Michael Rich, UCLA

Date of the lecture: November-12-2004  
Title of the lecture: What’s Shaking and How We Measure It.  
Speaker: Dr. Kate Hutton, JPL and Cal. Tech.

Date of the lecture: October-29-2004  
Title of the lecture: Halloween Storms on the Sun.  
Speaker: Dr. Debi Prasad Choudhary, CSUN

Date of the lecture: October-15-2004  
Title of the lecture: Planets in Alignment– Venus in Transit.  
Speaker: Mr. Matt Ventimiglia, CSUN

Date of the lecture: October-08-2004  
Title of the lecture: As the World Turns and Changes Its Mass Distribution.  
Speaker: Dr. Jean O. Dickey, JPL

Date of the lecture: October-01-2004  
Title of the lecture: Spirit and Opportunity: Summer 2004 Adventure on Mars.  
Speaker: Dr. Albert Haldemann, JPL

Date of the lecture: September-10-2004  
Title of the lecture: The Quest to Detect Gravitational Waves.  
Speaker: Dr. Peter Shawhan, Cal. Tech.

Date of the lecture: August-20-2004  
Title of the lecture: Keck Interferometer – Planet Hunting and Other Astrophysics Done with High Resolution Imaging.  
Speaker: Dr. Andrew J. Booth, JPL

Date of the lecture: July-30-2004  
Title of the lecture: Rings of Saturn  
Speaker: Dr. Linda J. Spilker, JPL
Date of the lecture: July-23-2004  
Speaker: Dr. Theresa Lynn, Cal. Tech.

Date of the lecture: June-25-2004  
Title of the lecture: Genesis – Search for Origins.  
Speaker: Mr. Donald Sweetnam, JPL

Date of the lecture: June-4-2004  
Title of the lecture: Understanding the Dark Universe.  
Speaker: Dr. David B. Cline, UCLA

Date of the lecture: May-14-2003  
Title of the lecture: The Cassini/Huygens Mission to Saturn and Titan.  
Speaker: Dr. Kevin Grazier, JPL

Date of the lecture: May-7-2004  
Title of the lecture: From New Stars to Black Holes: The Infrared View of the Universe from NASA’s Spitzer Space Telescope.  
Speaker: Dr. Varoujan Gorjian, JPL

Date of the lecture: April-16-2004  
Title of the lecture: In the Heat of the Night: Exploring the Invisible Universe.  
Speaker: Dr. Michelle Thaller, JPL

Date of the lecture: April-9-2004  
Title of the lecture: Galileo’s Odyssey: The Worlds of Jupiter.  
Speaker: Dr. Rosaly M. Lopes, JPL

Date of the lecture: March-26-2004  
Title of the lecture: The Icy Moon Europa May Contain a Liquid Ocean.  
Speaker: Dr. John Olson, UCLA

Date of the lecture: February-13-2004  
Title of the lecture: Relativistic Interstellar Travel  
Speaker: Dr. Art Huffman, UCLA

Date of the lecture: January-31-2004  
Title of the lecture: The STARDUST MISSION: The Return of Cometary Samples to Earth  
Speaker: Dr. Kevin McKeegan, UCLA

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Mr. Matt Ventimiglia - Matt has traveled all over the world and observed four total solar eclipses, four annular eclipses, numerous lunar eclipses, and one transit of Venus and one transit of Mercury.

Mr. Robert Provin - Senior Information Technology Consultant and Lecturer in the Department of Geography at California State University, Northridge.

Professor Richard Rains - Professor of Physics and Astronomy at Los Angeles Mission College.

Professor Peter Collas - Professor of Physics in the Department of Physics and Astronomy at California State University, Northridge.

Professor Duane Doty - Professor of Physics in the Department of Physics and Astronomy at California State University, Northridge.

Professor Paul Lee - Professor of Physics in the Department of Physics and Astronomy at California State University, Northridge.

Professor Phil Plait - Professor of Astronomy in the Department of Physics and Astronomy at Sonoma State University, Sonoma, California.