

LIST OF TALKS BY APOSTOLOS CHRISTOU

Scientific Talks

2024

“Mercury vs the Taurids: a continuing saga”, Meteor Physics Group, University of Western Ontario, London, Ontario, Canada, 17 April 2024.

“A short introduction to orbital motion”, Armagh Observatory, Armagh, UK, 8 February 2024.

2023

“The Taurid resonant swarm at Mercury”, Asteroids, Comets, Meteors Conference 2023, Flagstaff, Arizona, 23 June 2023.

“Hunting for meteors at Venus”, Envision Venus science workshop, Hybrid Meeting, DLR Berlin Germany, 11 May 2023.

2022

“Extraterrestrial shooting stars: Searching for meteors beyond Earth”, RAS Specialist Discussion Meeting, London, UK, 09 December 2022.

“Prospects for meteor astronomy at Venus”, Venus Science Conference, Hybrid Meeting, 30 September 2022.

“High-inclination NEAs as meteor stream parent bodies”, Europlanet Science Congress 2022, Granada, Spain, 23 September 2022.

“High-inclination NEAs as meteor stream parent bodies”, Meteoroids 2022, Hybrid Meeting, 17 June 2022.

“The three-body problem in the solar system: A guided tour of the coorbital zoo”, Queens University Belfast, 29 March 2022.

“The three-body problem in action: A menagerie of solar system coorbitals”, COOMOT workshop, Milan, Italy, 28 March 2022.

2021

“Earth’s blind spot: A closer look at observational biases for Earth coorbital asteroids”, Europlanet Science Congress 2021, Virtual Meeting, September 2021.

“Trojans Near Us: Ageless companions to the terrestrial planets”, Astronomical Society of Ireland, 02 November 2021.

“AOP Asteroid science case presentation”, Europlanet 2024-RI JRA4-ML, 19 February 2021.

“The Martian Trojans: A compositional census”, Equipe Théorie et Observations en Planétologie (TOP), Observatoire de la Côte d’Azur, 21 January 2021.

2020

“The Martian Trojan asteroids: a natural experiment in asteroid evolution”, Astrophysics Research Centre, Queens University Belfast, 02 Dec 2020.

“Orbital mobility of asteroids in the Inner Main Belt: A closer look at gravitational diffusion”, DDA 51 - Virtual Meeting, 03 August 2020.

“The origin of Neptune’s unusual satellites from a planetary encounter”, AOP Seminar, 09 April 2020.

“Meteoroid Streams at Mercury”, Surface-Bounded Exospheres Workshop, International Space Science Institute, Bern, Switzerland, 21 January 2020.

2019

“The Martian Trojan asteroids: a natural experiment in asteroid evolution”, Paris Observatory, Paris, France, 9 December 2019.

“The Martian Trojan asteroids: a natural experiment in asteroid evolution”, Lund Observatory, Lund, Sweden, 26 September 2019.

“The Martian Trojans, a dynamic population of asteroids at 1.5 au from the Sun”, *Irish National Astronomy Meeting (INAM) 2019*, Armagh, UK, 04 September 2019.

“Earth’s missing Trojans: Lessons from Mars and the role of radiation forces”, *DDA L*, Boulder, CO, USA, 10 June 2019.

“Near Earth Asteroid research at Armagh”, *UK NEA Community Meeting*, Royal Astronomical Society, Burlington House, Piccadilly, London, 26 Feb 2019.

2018

“Earth’s missing coorbitals”, *European Planetary Science Congress 2018*, Berlin, Germany, 18 September 2018.

“Extra-terrestrial Meteors (INVITED)”, *European Planetary Science Congress 2018*, Berlin, Germany, 17 September 2018.

“The Martian Trojans and the closest asteroid family to the Sun”, *IAU General Assembly, "A Century of Asteroid Families" Focus Meeting (FM1)*, Vienna, Austria, 29 August 2018.

2017

“Population control of Martian Trojans by the Yarkovsky & YORP effects”, *DPS IL*, Provo, Utah, 18 October 2017.

“Orbital evolution and escape of Martian Trojans due to the Yarkovsky effect”, *DDA XLVIII*, Queen Mary University of London, London, UK, 15 June 2017.

2016

“Trojan asteroids of the Earth and Mars”, German Aerospace Centre, Berlin, Germany, 11 November 2016.

“The composition of the Eureka family of Martian Trojan asteroids”, Dept of Physics and Astronomy, University of Western Ontario, 27 July 2016.

“The composition of the Eureka family of Martian Trojan asteroids”, *UK National Astronomy Meeting*, University of Nottingham, 27 June 2016.

“The exosphere of Mercury as a detector of Encke meteoroids”, *Meteoroids 2016*, ESA ESTEC, 10 June 2016.

2015

“A stream of interplanetary meteoroids affecting the exosphere of Mercury”, Bryant Space Science Center, University of Florida at Gainesville, 19 November 2015.

“Seasonal feature on Mercury’s exosphere caused by meteoroids from comet Encke”, Press Conference, *DPS XLVII*, Washington, DC, 10 November 2015.

“Seasonal feature on Mercury’s exosphere caused by meteoroids from comet Encke”, *DPS XLVII*, Washington, DC, 9 November 2015.

“A new model of the lunar ejecta cloud: Implications for in situ dust measurements”, *European Planetary Science Congress 2015*, Nantes, France, 30 September 2015.

“Co-orbital dynamics in the solar system”, 4-part seminar, *Armagh Observatory Solar System Group*, Armagh, UK, February-March 2015.

“Rigid body rotation”, *Armagh Observatory Solar System Group*, Armagh, UK, 14 February 2015.

2014

“Martian Trojan Asteroids: A new feature of the inner solar system”, Centre for Astrophysics and Planetary Science, University of Kent at Canterbury, 9 December 2014.

“New Martian Trojans and an update on the Eureka cluster”, *European Planetary Science Congress 2014*, Cascais, Portugal, 11 September 2014.

“New Martian Trojans and an update on the Eureka cluster”, *ACM 2014*, Helsinki, Finland, 1 July 2014.

“A steady state model of the lunar ejecta cloud”, *DDA XLV*, Philadelphia, USA, 1 May 2014.

“Trojan asteroids in the solar system”, Institute for Geodesy & Geoinformation Science, Technical University of Berlin, Berlin, Germany, 26 February 2014.

“A new picture of the Martian Trojan clouds”, Observatoire de la Côte d’Azur, Nice, France, 13 January 2014.

2013

“A family of Martian Trojan asteroids”, Press Conference, *DPS XLV*, Denver, CO, 6 October 2013.

“A genetic cluster of Martian Trojan asteroids”, *DPS XLV*, Denver, CO, 6 October 2013.

“New features of the Martian Trojan clouds”, *European Planetary Science Congress 2013*, University College London, London, UK, 10 September 2013.

“The cometary NEO (192642) 1999 RD32 and its meteor showers”, *Meteoroids 2013*, Adam Mikiewicz University, Poznan, Poland, 28 August 2013.

“Attendants of the Planets: Trojan and Greek asteroids in the solar system”, *Departmental Seminar*, Institute for Astronomy, Astrophysics, Space Applications & Remote Sensing, National Observatory of Athens, Athens, Greece, 22 May 2013.

2012

“Cometary meteor showers as time machines: the Perseids”, *Departmental Seminar*, Technical University of Berlin, Berlin, Germany, 24 October 2012.

“The *Mercury* numerical integration package: a primer”, Technical University of Berlin, Berlin, Germany, 24 October 2012.

“Fourier analysis in a nutshell”, Technical University of Berlin, Berlin, Germany, 24 October 2012.

“Taking Jupiter’s temperature using starlight: The occultation of 45 Capricornii in 2009”, *European Planetary Science Congress 2012*, Madrid, Spain, 26 September 2012.

“Meteoroid streams at Mars (and its moons)”, *7th Europlanet Strategic Meteor Workshop*, MIIGAIK Institute, Moscow, Russia, 5 July 2012.

“Physical characterisation of accessible NEA (190491) 2000 FJ10 with SALTICAM”, *UK National Astronomy Meeting 2012*, University of Manchester, Manchester, UK, 27 March 2012.

2011

“Co-orbital dynamics in the solar system: the case of the Earth”. *Europlanet NA1 Planetary Geodesy and Ephemerides Workshop*, MIIGAIK, Moscow, 15 November 2011.

“Pro-Am observations of mutual events between the Galilean satellites during the PHEMU09 campaign from Greece”, *30th European Symposium on Occultation Projects*, Berlin, Germany, 28 August 2011.

2010

“The present day production of metre-sized lunar craters from different approaches”, *6th European Strategic Meteor Workshop*, DLR, Berlin, Germany, 22 October 2010.

“The Armagh Observatory Meteor Cameras: Five Years of Operation”, *International Meteor Conference 2010*, Armagh, Northern Ireland, UK, 19 September 2010.

“Fireballs at Armagh: Our experience with the Meteor Camera Cluster and Fireball Reports from the public”, *Fireball Workshop*, Armagh Observatory, Armagh, Northern Ireland, UK, 15 September 2010.

“Beyond Horseshoes and Tadpoles: A fresh look at coorbital dynamics in the solar system”, Two-part seminar, *Astronet Workshop*, University of Surrey, Guildford, UK, 10 & 11 June 2010.

“Meteor showers for *Akatsuki* at Venus and *Curiosity* at Mars”, *Meteoroids 2010*, Breckenridge, CO, 26 May 2010.

“Probe meets meteoroid stream: A method of predicting encounters between cometary dust trails and interplanetary spacecraft”, *Meteoroids 2010*, Breckenridge, CO, 25 May 2010.

2009

“Possible meteoroid streams at Mercury”, *5th European Strategic Meteor Workshop*, IWF, Graz, Austria, 12-13 November 2009.

“The main features of the Martian and Venusian meteor years: an Earth-oriented assessment”, *European Planetary Science Congress 2009*, Potsdam, Germany, 14 September 2009.

“Twice in a lifetime: Observing mutual eclipses and occultations between the Uranian satellites”, *Astronomical Science Group of Ireland Spring Meeting*, Trinity College Dublin, Ireland, 27 March 2009.

“The Martian Meteor Year: what (we think) we know”, *Mars Express Science Working Team meeting*, ESTEC, Noordwijk, The Netherlands, 15 January 2009.

“The Venusian Meteor Year: what (we think) we know”, *Venus Express Science Working Team meeting*, ESTEC, Noordwijk, The Netherlands, 13 January 2009.

2008

“Meteor activity on neighbouring planets: past, present and future”, *Astronomy Unit Seminar*, Queen Mary University of London, London, UK, 28 November 2008.

“Predicting meteor showers at other planets: Δ is not enough”, *4th Europlanet Strategic Meteor Workshop*, RIU, Cologne, 27 September 2008.

“Optimising meteor searches at Mars: How and when”, *Meteor Physics Group Seminar*, University of Western Ontario, Canada, 14 September 2008.

“Present and future observations of a meteor shower in the Martian atmosphere”, *UK National Astronomy Meeting 2010*, Queen’s University Belfast, Belfast, UK, 2 April 2008.

“Observing the Uranian satellites at Equinox”, *Royal Astronomical Society Ordinary Meeting*, London, UK, 14 March 2008.

2007

“Meteor showers and outbursts at Mars and Venus”, *Meteoroids 2007*, Barcelona, Spain, 13 June 2007.

“Meteoroid Effects in the Solar System”, *Europlanet Strategic Workshop*, ESTEC, Noordwijk, The Netherlands, 27 February 2007.

“Meteor forecasts for Mars and Venus”, *Coordinated Meteor Observations in 2007 and Beyond*, EuroPlaNet N3 Workshop, Armagh Observatory, Armagh, Northern Ireland, 30 January 2007.

2006

“Mutual events of the uranian satellites: A window into their dynamics and physical properties”, *Workshop on Mutual events of the Uranian satellites in 2007-2008 and further observations*, IMCCE, Observatoire de Paris, Paris, France, 16 November 2006.

“Meteoroid-Planet interaction: comparative studies among the terrestrial planets”, *European Planetary Science Congress 2006*, Berlin, Germany, 18 September 2006.

“The Armagh Observatory video meteor cameras: Setup and first year of operation”, *International Meteor Conference 2006*, Roden, The Netherlands, 12 September 2006.

2005

“Future missions to the terrestrial planets”, *1st Europlanet Strategic Meteor Workshop*, IWF, Graz, Austria, 12 November 2005.

“Venusian and Martian meteors: What are they like?”, *1st Europlanet Strategic Meteor Workshop*, IWF, Graz, Austria, 11 November 2005.

“Mimas and Enceladus coorbitals: where are they?”, *DDA XXXVII*, Halifax, Canada, 21 April 2006.

“Mutual events of the Uranian satellites”, *Astronomical Science Group of Ireland Autumn Meeting*, Dublin City University, Dublin, Ireland, 7 October 2005.

2004

“Meteor shower forecasts in the Venusian atmosphere”, *Astronomical Science Group of Ireland Autumn Meeting*, University College Dublin, Dublin, Ireland, 10 September 2004.

“Meteor showers at the nearest planets: prospects and opportunities”, *Meteoroids 2004*, University of Western Ontario, London, Ontario, Canada, 17 August 2004.

“The gravitational stirring of the prograde irregular satellites of Jupiter”, *DDA XXXV*, Cannes, France, 21 April 2004.

“The gravitational stirring of the irregular prograde satellites of Jupiter”, *Joint Astronomical Science Group of Ireland/Institute of Physics Spring Meeting*, Armagh, Northern Ireland, UK, 3 April 2004.

2003

“Beagle 2 and Phobos eclipses: an update”, *Beagle 2 Environmental Sensor Suite Project Meeting*, University of Leicester, Leicester, UK, 24 October 2003.

“The nearest of near-Earth asteroids”, *UK/ireland National Astronomy Meeting*, Trinity College Dublin, Dublin, Ireland, 8 April 2003.

2002

“NEA Rendezvous Opportunities: Targets, Dynamics and Statistics”, *Astrodynamics Workshop*, Surrey Space Centre, University of Surrey, Guildford, UK, April 23, 2002.

“In the shadow of fear: Phobos eclipses as a lander locator”, *Astronomy Unit Seminar*, Queen Mary University of London, London, UK, 5 September 2002.

2001

“Nearer than the Moon: Dynamics and future opportunities for NEO missions”, *RAS “G” Meeting*, Burlington House, London, UK, 14 December 2001.

“The Trojans of Ceres and Vesta”, *DPS XXXIII*, New Orleans, LA, 1 December 2001.

“Ceres: a true Minor Planet”, *Ceres 2001 Workshop*, Bureau des Longitudes, Paris, France, 10 October 2001.

“Clouds, tracks & vanishing stars: The risks and rewards of observing occultations”, *Astronomical Science Group of Ireland Autumn Meeting*, University College Dublin, Dublin, Ireland, 7 September 2001.

“Observing Phobos eclipses from the Beagle 2 lander”, *Beagle 2 science meeting*, University of Leicester, Leicester, UK, 24 April 2001.

“Interplanetary Trajectories: Theory and Practice”, *Departmental Seminar*, Surrey Space Center, University of Surrey, Guildford, UK, February 13, 2001.

2000

“Using Phobos for areographic position determination on small Mars landers”, , 24 December 2000.

“Comet observation opportunities with D-CIXS during SMART-1’s cruise phase”, *SMART-1 Meeting*, Coseners House, Abingdon, UK, 17 October 2000.

“Co-orbital asteroids in the solar system”, *RAS “G” Meeting*, Burlington House, London, UK, 13 October 2000.

1999

“Dynamics of temporary coorbital asteroids of the Earth and Venus”, *DPS XXXI*, Abano Terme, Italy, 12 October 1999.

1997

“Applications of a high order secular perturbation theory: the Uranian satellites and beyond”, *NATO Advanced Study Institute*, Maratea, Italy, 4 July 1997.

“Analytical modelling of the uranian satellite system’, *9th Rencontres de Blois*, Chateau de Blois, France, 24 June 1997.

Talks to Amateur Societies and Public Talks

“Eclipses and occultations”, Astronomical Association of Corfu, 20 February 2024 (in greek).

“Extra-terrestrial occultations: The Beagle-2 experiment”, European Symposium on Occultation Projects 2022, Hybrid meeting, Granada, Spain, 11 September 2022.

“Perseverance and the search for life on Mars”, *Newtonabbey Rotary Club*, Newtonabbey, UK, 12 April 2021.

“The mutual events of Jupiter’s satellites in 2021” (in greek, with Mr Vagelis Tsamis), *Astronomical Society of Western Greece - Heracles*, 10 January 2021.

“Eclipses in the solar system”, Armagh Planetarium, Armagh, UK, 14 February 2020.

“Where do meteorites come from?”, Armagh Planetarium, Armagh, UK, 25 April 2019.

“The total lunar eclipse of 21 January 2019”, Armagh Planetarium, Armagh, UK, 21 January 2019.

“Meteorites - Rocks that fall from the sky”, *Newtonabbey Rotary Club*, Newtonabbey, UK, 23 October 2018.

“The Armagh Observatory Meteor Camera project”, *NEMETODE Meteor Workshop*, Dunsink Observatory, Dunsink, RoI, 15 September 2018.

“The Insight Mission”, Armagh Planetarium, Armagh, UK, 11 June 2018.

“Exploration of the Moon: Past, Present and Future”, Armagh Planetarium, Armagh, UK, 6 July 2017.

“New Horizons at Pluto”, Andrew Trimble Memorial Lecture, *Northern Ireland Amateur Astronomy Society*, Ballyclare, Co Antrim, UK, 1 February 2016.

“Horseshoes, Tadpoles and other weirdnesses: Asteroids and Planets learning to live together”, *Galway Astronomy Club*, Westwood House Hotel, Galway, RoI, 8 September 2014.

“Observations of the mutual phenomena between the satellites of Jupiter in 2014/15”, *8th Hellenic Amateur Astronomy Meeting*, Mt Helicon, Boeotea, Greece, 26 July 2014.

“Celestial sights for the Martian amateur astronomer”, *Irish Regional Meeting, Society for Popular Astronomy*, Queen’s University Belfast, Belfast, UK, 21 September 2013.

“The occultation of the bright star 45 Capricornii in 2009: Observations, scientific results, lessons learned and future prospects”, *32nd European Symposium on Occultation Projects*, Barcelona, Spain, 24 August 2013.

“Horseshoes, Tadpoles and other weirdness: Asteroids and Planets learning to live together”, *Irish Astronomical Association Public Lecture*, Queen’s University Belfast, Belfast, UK, 23 January 2013.

“Stargazing on Mars”, Cosmos 2012, Midland Astronomy Club, Tullymore, Co Offaly, Republic of Ireland, 15 April 2012.

“Pro-Am observations of mutual events between the Galilean satellites during the PHEMU09 campaign from Greece”, *30th European Symposium on Occultation Projects*, Berlin, Germany, 28 August 2011.

“The 2011 Draconids meteor outburst”, *5th Hellenic Amateur Astronomy meeting*, Grevena, Greece, 30 July 2011.

“Meteors and Meteoroids: An overview”, *5th Hellenic Amateur Astronomy meeting*, Grevena, Greece, 30 July 2011.

“Stargazing on Mars”, Andrew Trimble Memorial Lecture, Northern Ireland Amateur Astronomy Society, Ballyclare, Co Antrim, UK, 14 February 2011.

“Meteors and Meteoroids: An overview”, *4th Hellenic Amateur Astronomy meeting*, Mt Parnon, Greece, 10 July 2010.

“For Fun And Science: My ground-based exploration of the solar system”, *9th European Symposium for the Protection of the Night Sky*, Armagh, Northern Ireland, 18 September 2009.

“Don’t Blink Or You’ll Miss It: Fleeting sights of the solar system”, *East Antrim Astronomical Society Meeting*, Ballyclare, Northern Ireland, 3 April 2006.

“Eclipses and Occultations”, *Armagh Observatory Open Day*, Armagh Observatory, Armagh, Northern Ireland, 11 November 2004.

“The Sun and the Moon”, *Lauriston Primary School*, Hackney, London, January 2000.