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The MINOR PLANET CIRCULARS/MINOR PLANETS AND COMETS are published, on behalf of  
Division F of the International Astronomical Union, usually in batches  
on or near the date of each full moon, by:

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<http://www.minorplanetcenter.net/iau/mpc.html> ISSN 0736-6884

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### ERRATA

MPC	Line	
58594	36	<i>For</i> Arthur <i>read</i> August [(10587) citation]
110093	26	<i>For</i> 2012 08 13 Pan-STARRS 1 <i>read</i> 2010 07 07 WISE [discovery of (516894), also MPO 441241, line 42]
110618	23	<i>For</i> (b.1986) <i>read</i> (b.1988) [(93256) citation]
111778	-10	<i>For</i> 2010 12 15 Pan-STARRS 1 <i>read</i> 2013 03 16 Sheppard, S. S. [discovery of (523671), also MPO 450784, line 35]
111778	- 9	<i>For</i> 2012 01 07 Pan-STARRS 1 <i>read</i> 2013 03 16 Sheppard, S. S. [discovery of (523672), also MPO 450784, line -32]
111779	13	<i>For</i> 2010 02 26 Pan-STARRS 1 <i>read</i> 2014 03 24 Sheppard, S. S. [discovery of (523693), also MPO 450792, line -11]
111805	15	<i>For</i> 724 <i>read</i> 722
118808	-20	The entries for (1637) and (1638) should have appeared in the second list.
111808	-19	<i>For</i> twelve <i>read</i> fourteen

### NEW NAMES OF MINOR PLANETS

#### (6854) Georgewest = 1987 UG

Discovered 1987 Oct. 20 by K. W. Zeigler at the Anderson Mesa Station of the Lowell Observatory.

George West is a small town in South Texas. It is the home of George West High School, and the George West Mobile Observatory, from which physics teacher Kenneth Zeigler and a group of George West High School students have used CCD photometry to determine the rotational periods of many asteroids.

#### (8412) Zhaozhongxian = 1996 TM<sub>6</sub>

Discovered 1996 Oct. 7 by Beijing Schmidt CCD Asteroid Program at Xinglong.

Zhao Zhongxian (b. 1941) is a leading physicist and an Academician of the Chinese Academy of Sciences. He has made significant contributions to the study of high temperature superconductivity, and has won many prestigious awards, including the State Preeminent Science and Technology Award of China in 2016.

#### (12652) Groningen = 2622 T-3

Discovered 1977 Oct. 16 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Groningen is a city in north-east Netherlands. It is home to the Kapteyn Astronomical Institute of the University of Groningen.

#### (12653) van der Klis = 2664 T-3

Discovered 1977 Oct. 11 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Michiel van der Klis (b. 1953) is a Dutch astronomer and expert on the properties of neutron stars and black holes. He discovered quasi-periodic oscillations in X-ray binaries. He is the former Director of the Anton Pannekoek Institute in Amsterdam, and the winner of the Bruno Rossi prize (1987) and the Spinoza award (2004).

#### (12654) Heinofalcke = 4118 T-3

Discovered 1977 Oct. 16 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Heino Falcke (b. 1966) is a German radio astronomer working in Nijmegen (Netherlands), known for his innovative use of radio telescopes and his work on the Galactic Centre black hole. He received the Spinoza award in 2011.

#### (12655) Benferinga = 5041 T-3

Discovered 1977 Oct. 16 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Ben Feringa (b. 1951) is a renowned Dutch chemist, who won the 2016 Nobel Prize in Chemistry for the development of molecular machines. He is a passionate lecturer and public advocate for science.

#### (12656) Gerdebruijn = 5170 T-3

Discovered 1977 Oct. 16 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Ger de Bruijn (1948-2017) was a renowned Dutch radio astronomer who worked at Dwingeloo and Groningen. His expertise was key to the scientific and technical success of both the Westerbork Synthesis Radio Telescope and LOFAR.

#### (13932) Rupprecht = 1988 SL<sub>1</sub>

Discovered 1988 Sept. 18 by European Southern Observatory at the European Southern Observatory.

Gero Rupprecht (b. 1954) was a German astronomer at the European Southern Observatory from 1988 until 2019. He has been an integral part of astronomical instrumentation projects (FORs, HARPS and MUSE) that enabled the community to make numerous astronomical discoveries.

#### (14308) Hardeman = 5193 T-3

Discovered 1977 Oct. 16 by C. J. van Houten and I. van Houten-Groeneveld on Palomar Schmidt plates taken by T. Gehrels.

Sjoerd Hardeman (1982-2011) was a member of the Jongeren WerkGroep voor sterrenkunde (Dutch Youth Association for astronomy). He was a leader on several astronomy holiday camps and gave many presentations on astronomy. He died from leukemia shortly before defending his PhD.

**(19262) Lucarubini = 1995 OB<sub>1</sub>**

Discovered 1995 July 29 by A. Vagnozzi at Stroncone.

Luca Rubini (1980–2014) was an entrepreneur, astronomy enthusiast, science communicator and expert astrophotographer. The high-quality deep-sky images he produced have been published in specialized journals.

**(21237) Suematsu = 1995 WF<sub>5</sub>**

Discovered 1995 Nov. 18 by K. Endate and K. Watanabe at Kitami.

Kenji Suematsu (b.1966) teaches physics and earth sciences as a high school teacher in Nagasaki Prefecture. He is an enthusiastic teacher for students of all grades, from elementary through high school, and shows a particular passion for lectures on astronomy.

**(22355) Yahabananshozan = 1992 WD<sub>1</sub>**

Discovered 1992 Nov. 16 by K. Endate and K. Watanabe at Kitami.

Yahabananshozan is the name of a 848-m mountain in Iwate Prefecture of Japan. It appears in Kenji Miyazawa's famous story "Taneyamagahara no Yoru" ("The Night of Taneyamagahara").

**(22500) Grazianoventre = 1997 OJ**

Discovered 1997 July 26 by P. Sicoli and A. Testa at Sormano.

Graziano Ventre (b.1954) is an active member of the Osservatorio Astronomico Sormano and from his personal observatory, near his home in Bellagio (Italy), he obtains astrometric positions of comets and pictures of deep sky objects.

**(25941) Susanahearn = 2001 EB<sub>9</sub>**

Discovered 2001 Mar. 2 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

Susan Ahearn (b.1949) first visited Lowell Observatory as a child, with her family, on vacation. She became enthralled with the dark night skies of Arizona at that time and has supported astronomy research and education with her husband, Bill, for twenty-six years.

**(25943) Billahearn = 2001 EL<sub>10</sub>**

Discovered 2001 Mar. 2 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

William "Bill" Ahearn (b.1946) first visited Lowell Observatory as a teenager. He has been a supporter of astronomy and astronomy education ever since. He and his wife, Susan, have supported Lowell Observatory's research and education for twenty-six years.

**(25944) Charlesross = 2001 EP<sub>10</sub>**

Discovered 2001 Mar. 2 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

Charles "Charlie" Ross (b.1934) is a long-time admirer of astronomy and STEM education at Lowell Observatory. He and his wife, Pam, have been engaged with the observatory for over 25 years.

**(25956) Spanierbeckage = 2001 FE<sub>16</sub>**

Discovered 2001 Mar. 19 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

Bridget Spanier-Beckage (b.1950) is a long-time supporter of Lowell Observatory. As a former teacher, Bridget encourages Lowell's STEM education programs for children.

**(25957) Davidconnell = 2001 FO<sub>16</sub>**

Discovered 2001 Mar. 19 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

W. David Connell (b.1954) is an avid supporter of dark skies in Northern Arizona. He is a long-time member of the Lowell Observatory Advisory Board. In 2014, he assisted in the creation of the Lowell Observatory Foundation and has served as chair of the Foundation board since its founding.

**(25959) Gingergiovale = 2001 FZ<sub>18</sub>**

Discovered 2001 Mar. 19 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

Virginia "Ginger" Gore Giovale (b.1943) is a long-time supporter of math and science education. She and her husband, John, have been engaged with astronomy research and education since 1988. She serves as a trustee of the Lowell Observatory Foundation.

**(25961) Conti = 2001 FL<sub>22</sub>**

Discovered 2001 Mar. 21 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

Peter S. Conti (b.1934) is an astronomer known for his studies of hot luminous stars and the evolutionary connection between them. Specifically, he has studied O-type, Wolf-Rayet and Luminous Blue Variables.

**(26003) Amundson = 2001 FD<sub>104</sub>**

Discovered 2001 Mar. 18 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

Lauren Amundson (b.1984) is the librarian/archivist for Lowell Observatory. As such, she is the curator for the Observatory's historical collection which includes extensive material from Percival Lowell's personal research and travels.

**(26011) Cornelius = 2001 FA<sub>136</sub>**

Discovered 2001 Mar. 21 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

Frank Cornelius (b.1961), Engineering Manager at Lowell Observatory, was pivotal in maintaining performance of the Discovery Channel Telescope (DCT) and the Naval Precision Optical Interferometer (NPOI). He previously served as DCT Senior Site Engineer, DCT Site Engineer and NPOI Site Engineer.

**(26012) Sanborn = 2001 FG<sub>148</sub>**

Discovered 2001 Mar. 24 by the Lowell Observatory Near-Earth Object Search at the Anderson Mesa Station.

Jason Sanborn (b.1975), Night Operations Manager at Lowell Observatory, leads the nightly operations teams at the Discovery Channel Telescope (DCT) and the Naval Precision Optical Interferometer (NPOI). Jason served as a DCT Operator, NPOI Observer and LONEOS Observer.

**(26743) Laichinglung = 2001 HE<sub>38</sub>**

Discovered 2001 Apr. 30 by W. K. Y. Yeung at Desert Beaver.

Lai Ching Lung (b.1948) is a Hong Kong medical physician and a leading liver specialist. He has been a Professor of Medicine and Hepatology at the University of Hong Kong since 2003, where he has trained many physicians.

**(28966) Yuyingshih = 2001 HS<sub>24</sub>**

Discovered 2001 Apr. 26 by W. K. Y. Yeung at Desert Beaver.

Yu Ying-shih (b.1930) is a renowned Chinese-American historian and Sinologist. He was a tenured professor at Harvard University, Yale University and Princeton

University. He won the Tang Prize and used the NT\$10 million prize money to establish the Yu Ying-shih Fellowship for the Humanities.

**(29761) Lorenzo = 1999 CJ<sub>16</sub>**

Discovered 1999 Feb. 13 by M. Tombelli and S. Bartolini at Montelupo.

Lorenzo Bartolini (b. 2011) is the elder son of the second discoverer and the grandson of the first discoverer.

**(31387) Lehoucq = 1998 YA<sub>2</sub>**

Discovered 1998 Dec. 16 by ODAS at Caussols.

Roland Lehoucq (b. 1965) is a French astrophysicist, working on cosmic topology. He is also very active in public outreach and is well known for his books on science fiction novels and movies such as *Making Science with StarWars*. Since 2012, he has been the president of the annual sci-fi convention “les Utopiales”.

**(33823) Mariorigutti = 2000 CQ<sub>1</sub>**

Discovered 2000 Feb. 3 by M. Tombelli and A. Boattini at San Marcello.

Mario Rigutti (b. 1926) is an accomplished astronomer. He worked at the Arcetri Observatory, was president of the IAS, was chairman of the Solar Eclipses Working Group of the International Astronomical Union and was director of the Capodimonte Astronomical Observatory in Naples.

**(34316) Christineleo = 2000 QS<sub>190</sub>**

Discovered 2000 Aug. 26 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Christine Leo mentored a finalist in the 2018 Regeneron Science Talent Search, a science competition for high school seniors. She teaches at the Horace Mann School, Bronx, New York.

**(34317) Fabianmak = 2000 QH<sub>191</sub>**

Discovered 2000 Aug. 26 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Fabian Mak mentored a finalist in the 2018 Regeneron Science Talent Search, a science competition for high school seniors. He teaches at the Westview High School, Portland, Oregon.

**(34319) Neilmilburn = 2000 QD<sub>193</sub>**

Discovered 2000 Aug. 29 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Neil Milburn mentored a finalist in the 2018 Regeneron Science Talent Search, a science competition for high school seniors. He teaches at the Plano West Senior High School, Plano, Texas.

**(34320) Davidmonge = 2000 QU<sub>195</sub>**

Discovered 2000 Aug. 26 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

David R. Monge mentored a finalist in the 2018 Regeneron Science Talent Search, a science competition for high school seniors. He teaches at the Northwood High School, Irvine, California.

**(34321) Russellmotter = 2000 QY<sub>195</sub>**

Discovered 2000 Aug. 28 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Russell Motter mentored a finalist in the 2018 Regeneron Science Talent Search, a science competition for high school seniors. He teaches at the Iolani School, Honolulu, Hawaii.

**(34322) Marknandor = 2000 QW<sub>196</sub>**

Discovered 2000 Aug. 29 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Mark Nandor mentored a finalist in the 2018 Regeneron Science Talent Search, a science competition for high school seniors. He teaches at the Wellington School, Columbus, Ohio.

**(34323) Williamrose = 2000 QN<sub>198</sub>**

Discovered 2000 Aug. 29 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

William Rose mentored a finalist in the 2018 Regeneron Science Talent Search, a science competition for high school seniors. He teaches at the Montgomery Blair High School, Silver Spring, Maryland.

**(34324) Jeremyschwartz = 2000 QB<sub>199</sub>**

Discovered 2000 Aug. 29 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Jeremy Schwartz mentored a finalist in the 2018 Regeneron Science Talent Search, a science competition for high school seniors. He teaches at the Montgomery Blair High School, Silver Spring, Maryland.

**(34325) Terrencevale = 2000 QN<sub>201</sub>**

Discovered 2000 Aug. 29 by the Lincoln Laboratory Near-Earth Asteroid Research Team at Socorro.

Terrence Vale mentored a finalist in the 2018 Regeneron Science Talent Search, a science competition for high school seniors. He teaches at the Broad Run High School, Ashburn, Virginia.

**(34636) Lauwingkai = 2000 VC<sub>39</sub>**

Discovered 2000 Nov. 1 by W. K. Y. Yeung at Desert Beaver.

Lau Wing Kai (1965–2003) was a nurse at Tuen Mun Hospital in Hong Kong. During the 2003 SARS epidemic, he selflessly carried out his duty and unfortunately died from the disease.

**(35283) Bradtimerson = 1996 TB<sub>1</sub>**

Discovered 1996 Oct. 5 by G. R. Viscome at Rand.

Bradley W. Timerson (1950–2018) was a science teacher, weather spotter, amateur seismologist and active member of IOTA. Brad served as IOTA VP for Planetary Occultations, where he mentored observers and analyzed hundreds of submitted asteroidal occultations.

**(35768) Wendybauer = 1999 JR<sub>1</sub>**

Discovered 1999 May 8 by the Catalina Sky Survey.

Wendy Hagen Bauer (b. 1950) is a North American professor emerita of astronomy at Wellesley College, where she taught from 1979–2015. A dedicated educator, she taught classes ranging from upper level astronomy seminars on stars, to planetary geology.

**(35769) Tombauer = 1999 JX<sub>1</sub>**

Discovered 1999 May 8 by the Catalina Sky Survey.

Thomas J. Bauer (b. 1955) is a retired physics instructor at Wellesley College, where he taught from 1986 to 2014. He developed instrumentation to use in both introductory and advanced laboratory classes, and developed software to control data collection from spectrometers to oscilloscopes.

**(36444) Clairblackburn = 2000 PA<sub>31</sub>**

Discovered 2000 Aug. 1 by M. W. Buie at Cerro Tololo.

Clair Blackburn (1940–2018) was a tireless and infectious positive force for astronomy education and outreach in Tonopah, Nevada. He was an early adopter and supporter of the Research and Education Collaborative Occultation Network.

**(36983) Sumner = 2000 SB<sub>346</sub>**

Discovered 2000 Sept. 21 by M. W. Buie at Kitt Peak.

James Edward (Red) Sumner, Jr. (b. 1948) has distinguished himself as a stellar occultation observer. In particular, he has provided essential education and outreach support for the Research and Education Collaborative Occultation Network.

**(40763) Zloch = 1999 TS<sub>14</sub>**

Discovered 1999 Oct. 5 by P. Kušnirák at Ondřejov.

František Zloch (b. 1949) is a retired solar observer of the Czech Academy of Sciences in Ondřejov. He conducted systematic observations of solar activity from 1981 to 2011, which were used by the International Patrol Service. He was also the founder and first director of the Rimavská Sobota Observatory (1975–1981).

**(45692) Poshyachinda = 2000 EJ<sub>148</sub>**

Discovered 2000 Mar. 4 by the Catalina Sky Survey.

Saran Poshyachinda (b. 1964) is Executive Director of the National Astronomical Research Institute of Thailand. Encouraging public interest in astronomy, he was crucial in the construction of the Thai National Observatory, regional observatories for the public throughout Thailand and a 40-m radio telescope.

**(46920) Suzanedwards = 1998 SX<sub>12</sub>**

Discovered 1998 Sept. 23 by the Catalina Sky Survey.

Suzan Edwards (b. 1951) is the L. Clark Seelye Professor of Astronomy at Smith College. Edwards studies and has made significant contributions to the understanding of the formation of stars, the evolution of planet-forming disks, and the role played by disk- and stellar-driven winds during the early phases of stellar evolution.

**(47619) Johnpursch = 2000 BW<sub>28</sub>**

Discovered 2000 Jan. 30 by the Catalina Sky Survey.

John Pursch (b. 1958) is a long-time computing systems manager of the University of Arizona's Lunar and Planetary Laboratory and Department of Planetary Sciences. He has provided critical support for numerous planetary scientists, students and spacecraft missions. He is also known for his award-winning poetry.

**(47620) Joeplasmann = 2000 BA<sub>29</sub>**

Discovered 2000 Jan. 30 by the Catalina Sky Survey.

Joe Plassmann (b. 1965) is the systems manager for the University of Arizona's Lunar and Planetary Laboratory, Planetary Image Research Laboratory, and manages the ground data processing system for NASA's High Resolution Imaging Science Experiment on the Mars Reconnaissance Orbiter.

**(47627) Kendomanik = 2000 CX**

Discovered 2000 Feb. 1 by the Catalina Sky Survey.

Ken Domanik (b. 1957) is a geologist, experimental petrologist and long-time manager of the Michael J. Drake Electron Microprobe Laboratory at the University of Arizona's Lunar and Planetary Laboratory. Renowned for his analytical expertise, he provides invaluable support for numerous scientists and students worldwide.

**(47649) Susanbrew = 2000 CP<sub>40</sub>**

Discovered 2000 Feb. 1 by the Catalina Sky Survey.

Susan Brew (b. 1951) served as the Program Manager for the University of Arizona and Arizona NASA Space Grant Consortium since the program's inception

in 1988. Susan directly supported over 1 300 STEM leaders, mentors and affiliates and her work has positively impacted the lives of countless others.

**(50719) Elizabethgriffin = 2000 EG<sub>140</sub>**

Discovered 2000 Mar. 1 by the Catalina Sky Survey.

Elizabeth Griffin (b. 1942) is a Canadian astronomer specializing in the spectroscopic study of binary stars. She has been a staunch advocate globally for the digitization and preservation of photographic plates and using legacy science data of all kinds.

**(52681) Kelleghan = 1998 DK<sub>34</sub>**

Discovered 1998 Feb. 27 by E. W. Elst at the European Southern Observatory.

Deirdre Kelleghan (b. 1957) is an Irish astronomer, artist and educator. She invents, designs and enacts creative workshops to help children understand our solar system through drawing. Her activities take place in schools, libraries, science centres and observatories throughout Ireland.

**(59470) Paveltofufar = 1999 HM**

Discovered 1999 Apr. 17 by P. Pravec at Ondřejov.

Pavel Toufar (1948–2018) was a Czech journalist and writer. He was known for his popular, yet precise, articles, books and interviews about astronautics based on primary sources as well as on his personal experiences (e.g., with isolation experiments).

**(59797) Píšala = 1999 PX**

Discovered 1999 Aug. 7 by J. Tichá and M. Tichý at Kleť.

Jan Píšala (b. 1982) is a Czech astronomy populariser, and the author of many popular science publications, as well as audiovisual shows at the Brno Observatory and Planetarium. He is a graduate nuclear chemist, one of the main leaders of the Astronomical Expedition and also a great colleague and friend.

**(62701) Davidrankin = 2000 TS<sub>32</sub>**

Discovered 2000 Oct. 7 by L. Ball at Emerald Lane.

David Rankin (b. 1984) is an American amateur astronomer. He provides follow-up observations of Near Earth asteroids to the Minor Planet Center.

**(66151) Josefhanuš = 1998 UL**

Discovered 1998 Oct. 16 by P. Pravec at Ondřejov.

Josef Hanuš (b. 1983) is a Czech planetary astronomer. He has worked on modeling rotation states and shapes of small Solar System bodies using the technique of rotation lightcurve inversion, and on their physical modeling using also infrared observations, stellar occultation data and adaptive optics observations.

**(79347) Medlov = 1996 XJ<sub>2</sub>**

Discovered 1996 Dec. 4 by J. Tichá and M. Tichý at Kleť.

Medlov is a pond located near the town of Nové Město na Moravě in the Bohemian-Moravian Highlands, Czech Republic. It is a popular recreational area. Astronomical summer youth camps were organized near Medlov pond in the 1980s and 1990s.

**(82937) Lesicki = 2001 QW<sub>113</sub>**

Discovered 2001 Aug. 26 by P. Pravec and P. Kušnirák at Ondřejov.

Andrzej Lesicki (b. 1950) is a cellular biologist working at Adam Mickiewicz University in Poznań, Poland. From his position as Rector of the university, he has actively supported asteroid research at the university's observatory and helped to develop a computer cluster that is used for modeling asteroids from their lightcurves.

**(87088) Joannewheeler = 2000 LY**

Discovered 2000 June 2 by P. Pravec and P. Kušnirák at Ondřejov.

Joanne Wheeler (b. 1971) is a Member of the Order of the British Empire for her services to space. She is a leader in the space law discipline, and a fellow of the Royal Astronomical Society and Royal Aeronautical Society. She has drafted U.K. space law, supported the growth of space companies and briefed on asteroid exploration.

**(89282) Suzieimber = 2001 VD<sub>17</sub>**

Discovered 2001 Nov. 10 by P. Pravec and P. Kušnirák at Ondřejov.

Suzie Imber (b. 1983) is a planetary scientist, an accomplished mountaineer, elite sportswoman, and TV personality. She is a direct and powerful inspiration for the next generation through her extensive STEM outreach activities, presenting to many thousands of school children about space exploration.

**(97677) Rachelfreed = 2000 FE<sub>57</sub>**

Discovered 2000 Mar. 30 by the Catalina Sky Survey.

Rachel Freed (b. 1972) is a teacher, an education curriculum specialist, and an avid long distance runner. She works with the Astronomical Society of the Pacific as a volunteer and researcher.

**(102224) Raffaellolena = 1999 TG<sub>12</sub>**

Discovered 1999 Oct. 10 by S. Sposetti at Gnosca.

Raffaello Lena (b. 1959) is an Italian lunar observer. He founded *Selenology Today*, a journal that has produced high quality amateur lunar studies. He is the Lunar Domes Coordinator of the British Astronomical Association.

**(104020) Heilbronn = 2000 DL<sub>110</sub>**

Discovered 2000 Feb. 26 by T. Pauwels at Uccle.

The city of Heilbronn is located on the Neckar river in the German federal state of Baden-Württemberg. It was the home of Julius Robert von Mayer, and houses Experimenta, the largest science centre in Germany.

**(110404) Itoemi = 2001 TR<sub>13</sub>**

Discovered 2001 Oct. 11 by R. A. Tucker at Goodricke-Pigott.

Emi Ito (1941–2012), born Hideyo Ito, was a popular Japanese singer from the late 1950's to the mid 1970's. Together with her identical twin sister, Yumi Ito, they became internationally famous as "The Peanuts". The sisters are perhaps best remembered as the "Mothra fairies" in the first three Mothra movies.

**(110405) Itoyumi = 2001 TS<sub>13</sub>**

Discovered 2001 Oct. 12 by R. A. Tucker at Goodricke-Pigott.

Yumi Ito (1941–2016), born Tsukiko Ito, was a popular Japanese singer from the late 1950's to the mid 1970's. Together with her identical twin sister, Emi Ito, they became internationally famous as "The Peanuts". The sisters are perhaps best remembered as the "Mothra fairies" in the first three Mothra movies.

**(150081) Steindl = 2006 UH<sub>109</sub>**

Discovered 2006 Oct. 19 by K. Sárneczky at Piszkestető.

Imre Steindl (1839–1902) was a Hungarian architect, full professor of the Budapest University of Technology, and a member of the Hungarian Academy of Sciences. His most famous work, the Hungarian Parliament Building, is regarded by many as a symbol of the capital city.

**(155215) Vámostibor = 2005 VU<sub>2</sub>**

Discovered 2005 Nov. 4 by K. Sárneczky at Piszkestető.

Tibor Vámos (b. 1926) is an electrical engineer, full member of the Hungarian Academy of Sciences, and the father of data communication in Hungary. He was the

winner of the 2005 annual science communication award of the Club of Hungarian Science Journalists.

**(172593) Vörösmarty = 2003 VM**

Discovered 2003 Nov. 5 by K. Sárneczky and S. Mészáros at Piszkestető.

Mihály Vörösmarty (1800–1855) was a poet and dramatist, one of the greatest Hungarian romanticists, and a full member of the Hungarian Academy of Science. His poetry *Szózat* became a second national anthem, and *Csongor és Tünde* is one of the best Hungarian plays of the nineteenth century.

**(181518) Ursulakleguin = 2006 UL<sub>86</sub>**

Discovered 2006 Oct. 17 by Mt. Lemmon Survey at Mount Lemmon.

Ursula Kroeber Le Guin (1929–2018) was an American novelist and the author of many books and stories for adults and children. Recipient of numerous literary awards, Le Guin's words will be remembered, worlds will be visited, and characters beloved, for as long as her namesake orbits the Sun.

**(197708) Kalipona = 2004 PQ<sub>1</sub>**

Discovered 2004 Aug. 8 by J. Dellinger at Needville.

Clifford "Kalipona" Livermore (b. 1941) has performed astronomy outreach on Mauna Kea for over 40 years. His efforts have helped locals and visitors to appreciate the value of maintaining Mauna Kea as a protected dark-sky site.

**(207504) Markusovszky = 2006 HK<sub>152</sub>**

Discovered 2006 Apr. 25 by K. Sárneczky at Piszkestető.

Lajos Markusovszky (1815–1893) was a physician, a military doctor, an organizers of modern Hungarian health education, and a member of the Hungarian Academy of Sciences. He was the founder of the Hungarian Medical Journal, and later an advisor to the Ministry for Religion and Education regarding university affairs.

**(207655) Kerboguan = 2007 OE<sub>8</sub>**

Discovered 2007 July 25 by C.-S. Lin and Q.-z. Ye at Lulin.

The National Museum of Natural Science (Kerboguan), a combined science center and natural history museum, is the first and the largest museum of natural science in Taiwan. It entertains more than three million visitors annually, and has become an important educational base for natural science since it opened in 1986.

**(207661) Hehuanshan = 2007 PR<sub>5</sub>**

Discovered 2007 Aug. 6 by C.-S. Lin and Q.-z. Ye at Lulin.

Mount Hehuan is a 3416-m mountain in Central Taiwan. The peak lies on the boundaries of Nantou and Hualien counties and is within the Taroko Gorge National Park. The Taiwan Star Party is held in the Hehuan Mountains every year.

**(207754) Stathiskafalis = 2007 ST<sub>4</sub>**

Discovered 2007 Sept. 21 by W. Ries at Altschwendt.

Stathis Kafalis (b. 1962) is a German engineer, amateur astronomer and telescope maker with Greek roots. He promotes astronomy via his mirror-grinding courses and he has helped many amateur astronomer to build their own telescope.

**(210421) Freundtamás = 2007 YD<sub>3</sub>**

Discovered 2007 Dec. 19 by K. Sárneczky at Piszkestető.

Hungarian neurobiologist Tamás Freund (b. 1959) has been involved for over 30 years in functional anatomical studies on cortical microcircuits, employing combinations of immunocytochemistry, electron microscopy, and electrophysiology. He is an active science communicator.

**(216331) Panjunhua = 2007 VG<sub>125</sub>**

Discovered 2007 Nov. 5 by PMO NEO Survey Program at XuYi.

Pan Junhua (b.1930), an academician of the Chinese Academy of Engineering, is the founder of both optic test equipment and optics manufacturing technology, and a pioneer of aspherical optics application in China.

**(229762) G!kún||'hòmdímà = 2007 UK<sub>126</sub>**

Discovered 2007 Oct. 19 by M. E. Schwamb, M. E. Brown and D. Rabinowitz at Palomar. Satellite discovered by K. S. Noll using the Hubble Space Telescope.

G!kún||'hòmdímà is the beautiful aardvark girl of Jul'hoan mythology who sometimes appears in stories as a python and sometimes as an elephant. She defends her people and punishes wrongdoers using g||ámíg||àmì spines, a raincloud full of hail, and her magical oryx horn G!ò'é !Hú. The satellite is being named G!ò'é !Hú.

**(240021) Radzo = 2001 TX<sub>257</sub>**

Discovered 2001 Oct. 8 by NEAT at Palomar.

Jozef Radzo (b.1949) is a teacher of mathematics and physics at Gymnázium A. Bernoláka secondary school in Senec, Slovakia, where he established modern physics and chemistry laboratories. From 1973–1993, he worked in Gymnázium Šamorín, where he encouraged S. Kürti's interest in astronomy.

**(249300) Karenmortfield = 2008 UY**

Discovered 2008 Oct. 18 at Auberry.

Karen Mortfield (b.1958) is a Canadian public affairs specialist. As a volunteer, she played a leadership role in the renaissance of the David Dunlap Observatory in Canada, working from 2009–2017 to repurpose the 80-year old Observatory as a space science campus.

**(253587) Cloutier = 2003 TH<sub>10</sub>**

Discovered 2003 Oct. 14 at New Milford.

Bill Cloutier (b.1955), amateur astronomer and community educator, is current Chairman of the McCarthy Observatory Board of Directors and a founder of the facility. A proponent of science literacy and educational excellence, he has observed this minor planet.

**(260366) Quanah = 2004 US<sub>3</sub>**

Discovered 2004 Oct. 28 by J. Dellinger at Needville.

Quanah Parker (c.1852–1911), last chief of the Comanche, led his people in war and peace. Thrust into an age of conflict, he gained the respect of his former enemies as a remarkable leader and advocate for his people.

**(270556) Kolonica = 2002 GX<sub>182</sub>**

Discovered 2002 Apr. 9 by NEAT at Palomar.

Kolonica is a small village in the vicinity of the astronomical observatory on Kolonica Saddle, Slovakia. Kolonica's inhabitants were very helpful during the observatory construction and still participate often in astronomical activities. The name was suggested by S. Kürti.

**(271216) Boblambert = 2003 TO<sub>13</sub>**

Discovered 2003 Oct. 14 at New Milford.

Bob Lambert (b.1943), is an amateur astronomer, community educator, and a founder of the McCarthy Observatory. He oversaw the creation of the Observatory's Galileo's Garden, a place for contemplation and teaching. A proponent of science literacy and educational excellence, he has observed this minor planet.

**(273936) Tangjingchuan = 2007 JC<sub>16</sub>**

Discovered 2007 May 9 by Q.-Z. Ye and H.-C. Lin at Lulin.

Tang Shunzhi (1507–1560), also known as Tang Jingchuan, was a famous Chinese writer, poet and statesman in the Ming dynasty. A native of Changzhou, Tang's

argument for the “concrete studies” (shixue) made him an important figure in the Changzhou intellectual framework.

**(281569) Taea = 2008 UV<sub>94</sub>**

Discovered 2008 Oct. 23 by X. Y. Hsiao and Q.-z. Ye at Lulin.

Tainan Astronomical Education Area (TAEA) is an astronomy museum in Tainan, Taiwan. TAEA has been dedicated to fundamental astronomy education since it was established in 2007.

**(283141) Dittsche = 2008 YW<sub>26</sub>**

Discovered 2008 Dec. 28 by R. Apitzsch at Wildberg.

Oliver Michael “Olli” Dittrich (b.1956), known as “Dittsche”, is a German actor, comedian and musician.

**(295841) Gorbulin = 2008 VT<sub>13</sub>**

Discovered 2008 Nov. 7 at Andrushivka.

Volodymyr Pavlovych Gorbulin (b.1939) is a member of National Academy of Sciences of Ukraine and the International Academy of Astronautics. He was the first General Director of the National Space Agency of Ukraine (1992–1994).

**(324787) Wlodarczyk = 2007 GR<sub>75</sub>**

Discovered 2007 Apr. 15 by K. Černis at Moletai.

Ireneusz Włodarczyk (b.1950) is a Polish astronomer at the Astronomical Observatory in Chorzów. Włodarczyk specializes in the computation of orbits of asteroids and comets. He has written a number of popular books and 100 scientific papers.

**(331785) Sumners = 2003 HL<sub>15</sub>**

Discovered 2003 Apr. 26 by D. Beaver and J. Dellinger at Needville.

Carolyn Sumners (b.1948) has taught astronomy at the Houston Museum of Natural Science's Burke Baker Planetarium since 1972. It was her inspiration to move a meter-class telescope to the George Observatory in 1989 for educating the public under the stars.

**(335306) Mouhot = 2005 QK<sub>30</sub>**

Discovered 2005 Aug. 28 by B. Christophe at Saint-Sulpice.

Clement Mouhot (b.1978) is a French mathematician and academic. He is Professor of Mathematical Sciences at the University of Cambridge, and a fellow of King's College, Cambridge. His research is primarily in partial differential equations and mathematical physics.

**(340479) Broca = 2006 HO<sub>57</sub>**

Discovered 2006 Apr. 28 by B. Christophe at Saint-Sulpice.

Pierre Paul Broca (1824–1880) was a French physician, anatomist and anthropologist. He is best known for his research on Broca's area, a region of the frontal lobe of the hominid brain that has been named after him.

**(342000) Neumünster = 2008 RV<sub>26</sub>**

Discovered 2008 Sept. 2 by W. Ries at Altschwendt.

The German city Neumünster has supported astronomical education since 1969. Currently they operate an observatory that offers astronomical courses and public observing. The observatory focuses on education.

**(381048) Werber = 2006 WA<sub>1</sub>**

Discovered 2006 Nov. 17 by J.-C. Merlin at Nogales.

Bernard Werber (b.1961) is a French science fiction writer. Werber's writing style mixes literary genres, including saga, science fiction and philosophical ideas. His most famous work is the trilogy *Les Fourmis* (*The Ants*).

**(383492) Aubert = 2007 BK<sub>50</sub>**

Discovered 2007 Jan. 21 by J.-C. Merlin at Nogales.

Pascal Aubert (b.1966) is a French astronomy enthusiast well-known for his organizational skills in travelling to observing solar eclipses all over the world. He has also participated in humanitarian education activities in Madagascar.

**(383508) Vadrot = 2007 CV<sub>18</sub>**

Discovered 2007 Feb. 9 by J.-C. Merlin at Nogales.

Laurent Vadrot (b.1975) is secretary-general of the Association Française des Observateurs d'Etoiles Variables. He is heavily involved in the protection of the night sky and in the development of an astronomy station in the Morvan Regional Nature Park (Burgundy).

**(396931) Nerliluca = 2005 GX<sub>33</sub>**

Discovered 2005 Apr. 4 by L. Tesi and G. Fagioli at San Marcello.

Luca Nerli (b.1954) is an amateur astronomer and active member of the Gruppo Astrofili Montagna Pistoiese. He is experienced in science communication, and deep sky and planetary imaging. He contributed to the discovery of the rings of the dwarf planet Haumea.

**(407016) Danielerdag = 2009 SZ<sub>21</sub>**

Discovered 2009 Sept. 18 by T. V. Kryachko at Zelenchukskaya Stn.

Daniel Erdag (1999–2017) loved astronomy, chemistry and sports. He was a member of the Lomonosov Tournaments in astronomy, chemistry, geography and global studies.

**(435950) Bad Königshofen = 2009 DL<sub>10</sub>**

Discovered 2009 Feb. 21 by F. Hormuth at Calar Alto.

The city of Bad Königshofen is a spa town in the Franconian part of the Grabfeld region in Bavaria, Germany. The earliest known mention of it is from the year 741 CE, but settlements existed much earlier. It still preserves many remains of an impressive star-shaped fortress from the early 18th century.

**(451138) Rizvanov = 2009 QC<sub>37</sub>**

Discovered 2009 Aug. 29 by T. V. Kryachko at Zelenchukskaya Stn.

Naufal Gayazovich Rizvanov (1930–2012) was a Soviet and Russian astronomer, and a full professor of astrometry and celestial mechanics. He initiated and organized the construction of the Kazan State University observatories at Nakhichevan (1960) and Zelenchuk (1971).

**(464743) Stanislavkomárek = 2003 PA<sub>11</sub>**

Discovered 2003 Aug. 6 by KLENOT at Kleť.

Stanislav Komárek (b.1958) is a Czech biologist, philosopher, writer and essayist. He has authored more than twenty books. His main focus is the history of biology, the relation between culture and nature, and biological aesthetics. Since 1990 he has served as a professor at Charles University in Prague.

**(469219) Kamo‘oalewa = 2016 HO<sub>3</sub>**

Discovered\* 2016 Apr. 27 by Pan-STARRS 1 at Haleakala.

Kamo‘oalewa alludes to a celestial object that is oscillating, like its path in the sky as viewed from the Earth. It is a name found in the Hawaiian chant Kumulipo. He ‘āpana hōkūna‘i i lele mai kona kino nui, he holo pū me ka honua a puni ka lā. Name conceived by A Hua He Inoa, ‘Imiloa Astronomy Center of Hawai‘i.

**(469366) Watkins = 2001 PH<sub>13</sub>**

Discovered 2001 Aug. 11 by NEAT at Haleakala.

Michael Watkins (b.1963) was Manager of JPL’s Science Division from 2013–2015. He personally created a new vision for the Division, set the standard for scientific and strategic leadership and guided the Science Division in providing that leadership to JPL. In 2016, he became the ninth director of JPL.

**(495287) Harari = 2013 RW<sub>94</sub>**

Discovered\* 2013 Sept. 11 by M. Zolnowski and M. Kusiak at Tincana.

Yuval Noah Harari (b.1976) is an Israeli historian and a tenured professor in the Department of History at the Hebrew University of Jerusalem. His international writing bestsellers focus on the study of free will, human consciousness and intelligence. He is also a proponent of animal rights.

**(510045) Vincematteo = 2010 EP<sub>2</sub>**

Discovered 2010 Mar. 4 by D. H. Levy and T. Glinos at the Jarnac Observatory, Vail.

Vince Matteo (b.1941) is one of the most accomplished participants at the Adirondack Astronomy Retreat. His magnificent all-sky photograph showing the International Space Station, a meteor, and many constellations graces the retreat’s lodge. He continues to mentor younger astronomers.

**(514107) Ka‘epaoka‘āwela = 2015 BZ<sub>509</sub>**

Discovered\* 2014 Nov. 26 by Pan-STARRS 1 at Haleakala.

In the Hawaiian language Ka‘epaoka‘āwela means the mischievous opposite-moving companion of Jupiter, evoking the image of a retrograde object of unknown origin. He hoa hōkūna‘i ‘e‘epa no Ka‘āwela e holo ‘ēko‘a ana ma ka poe lā. Name conceived by A Hua He Inoa, ‘Imiloa Astronomy Center of Hawai‘i.

**(518523) Bryanshumaker = 2006 SV**

Discovered 2006 Sept. 16 by D. H. Levy and T. Glinos at the Jarnac Observatory, Vail.

Bryan Shumaker (b.1949) is a urologist who helped design a dye-sensing device to treat cancer. As an accomplished and enthusiastic amateur astronomer, he has taken a leading role in the development of outreach programs in northern Michigan, particularly at the Headlands International Dark Sky Park there.

