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#1

*Pluto*

**Discovered:** February 18, 1930

**Fun Fact:** Pluto was discovered at Lowell Observatory in Flagstaff, AZ!

*Pluto*

**Origin of Name**

Roman god of the Underworld

**Discovered By**

Clyde Tombaugh

**Classification**

Dwarf Planet

(Some may argue otherwise)

**Location**

Kuiper Belt

**Orbital Period**

248 Earth years

#1

PLUTO AT



Image: (Artist Concept) JHU-APL/SwRI

Produced by Lowell Observatory | [www.lowell.edu](http://www.lowell.edu)



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#2

# Ceres

**Discovered:** January 1, 1801

**Fun Fact:** Ceres was the first object discovered in the asteroid belt!

# Ceres

## Origin of Name

Roman goddess of corn and harvests

## Discovered By

Giuseppe Piazzi

## Classification

Dwarf Planet

## Location

The main asteroid belt between Mars and Jupiter

## Orbital Period

4.6 Earth years

#2

PLUTO AT

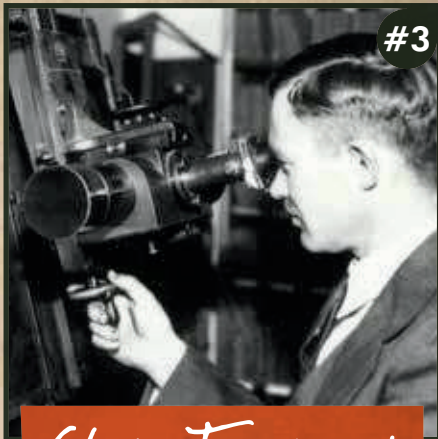


Image: NASA/JPL-Caltech/UCLA/MPS/DLR/IDA

Produced by Lowell Observatory | [www.lowell.edu](http://www.lowell.edu)



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#3

## Clyde Tombaugh

**Date of Birth:** February 4, 1906

**Fun Fact:** Tombaugh will be the first person to Pluto — his ashes are on *New Horizons*!

## Clyde Tombaugh

**Hometown**  
Streator, Illinois

**Occupation**  
Astronomer

**Alma Mater**  
University of Kansas

**Fields of Interest**  
The Search for Planet X, Asteroids

**Famous Achievement**  
Discovered Pluto at Lowell  
Observatory in 1930

#3

PLUTO AT



Image: Lowell Observatory Archives

Produced by Lowell Observatory | [www.lowell.edu](http://www.lowell.edu)



← FOLD



#4

# Jim Christy

**Date of Birth:** September 15, 1938

**Fun Fact:** Christy discovered Charon on photographic plates taken in Flagstaff, AZ!

# Jim Christy

**Hometown**  
Milwaukee, Wisconsin

**Occupation**  
Astronomer

**Alma Mater**  
University of Arizona

**Field of Interest**  
Double Stars

**Famous Achievement**  
Discovered Charon, Pluto's first known moon in 1978

#4

PLUTO AT



Image: U.S. Naval Observatory

Produced by Lowell Observatory | [www.lowell.edu](http://www.lowell.edu)





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#5

*Dr. Will Grundy*

**DOB:** October 16, 1965

**Fun Fact:** Grundy is an editor for *Icarus*, the leading scientific journal for solar system studies!

*Dr. Will Grundy*

**Hometown**  
Flagstaff, Arizona

**Occupation**  
Astronomer

**Alma Mater**  
University of Arizona

**Fields of Interest**  
Icy Outer Solar System Planets,  
Satellites, Kuiper Belt Objects

**Famous Achievement**  
Co-Investigator of NASA's  
*New Horizons* mission

#5



Image: Sarah Conant/Lowell Observatory Archives

Produced by Lowell Observatory | [www.lowell.edu](http://www.lowell.edu)



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## Dr. Alan Stern

**Date of Birth:** November 22, 1957

**Fun Fact:** The Apollo Program inspired him to become involved in space science at a young age!

## Dr. Alan Stern

### Hometown

New Orleans, Louisiana

### Occupation

Planetary Scientist

### Alma Maters

University of Texas, Austin  
University of Colorado, Boulder

### Fields of Interest

Astrophysics, Aerospace  
Engineering, Planetary Science

### Famous Achievement

Principal Investigator of NASA's  
*New Horizons* mission

#6



Image: Courtesy Photo

Produced by Lowell Observatory | [www.lowell.edu](http://www.lowell.edu)



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#7

## Pluto Telescope

**Built:** 1928-1929

**Fun Fact:** It is actually an astrograph that uses glass plates to take photos of the sky!

## Pluto Telescope

### Location

Lowell Observatory, Flagstaff, Arizona

### Type of Telescope

Astrographic Camera

### Also Known As

The Pluto Discovery Telescope, the Abbott Lawrence Lowell Telescope

### Reason for Construction

To search for Planet X

### Operation Status

Used for educational purposes only

#7

PLUTO AT

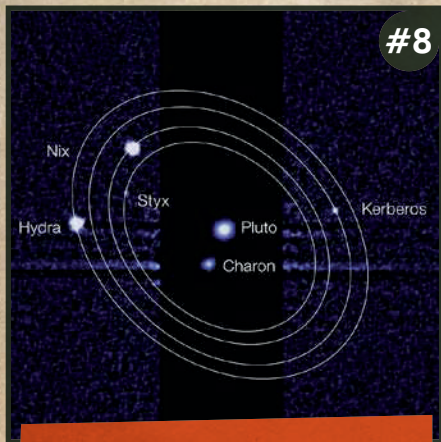


Image: Lowell Observatory Archives

Produced by Lowell Observatory | [www.lowell.edu](http://www.lowell.edu)



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## Pluto Moon System

**Discovered:** 1978/2005/2011/2012

**Fun Fact:** Vulcan was considered for a moon name, but it was disqualified!

## Pluto Moon System

### Origin of Names

Roman mythological characters of the Underworld

### Names of Moons

Charon, Nix, Hydra, Kerberos, Styx

### Discovered By

Jim Christy (Charon), Hubble Space Telescope team studying the Pluto system (Nix, Hydra, Kerberos), Team of scientists searching for hazards to the *New Horizons* mission (Styx)

### Location

Orbiting Pluto

#8

PLUTO AT



Image: NASA/ESA/Mark Showalter (SETI Institute)

Produced by Lowell Observatory | [www.lowell.edu](http://www.lowell.edu)



← FOLD



#9

## Percival Lowell

**Date of Birth:** March 13, 1855

**Fun Fact:** Lowell founded his observatory to study the solar system and search for life on Mars!

## Percival Lowell

### Hometown

Boston, Massachusetts

### Occupations

Businessman, Author,  
Mathematician, and Astronomer

### Alma Mater

Harvard University

### Fields of Interest

Planet X, Theories of Life on Mars

### Famous Achievement

Founding Lowell Observatory

#9

PLUTO AT



Image: Lowell Observatory Archives

Produced by Lowell Observatory | [www.lowell.edu](http://www.lowell.edu)





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#10

## Dr. Tom Krimigis

**PhD:** University of Iowa

**Fun Fact:** Built homemade rockets on the island of Chios, Greece as a youngster!

## Dr. Tom Krimigis

### **Hometown**

Chios, Greece

### **Occupation**

Emeritus Head,  
APL Space Department

### **Areas of Expertise**

Planetary Magnetospheres,  
Heliosphere

### **Noteworthy Achievement**

Has designed and built instruments  
that have flown to all planets in our  
Solar System

#10



Image: Courtesy Photo

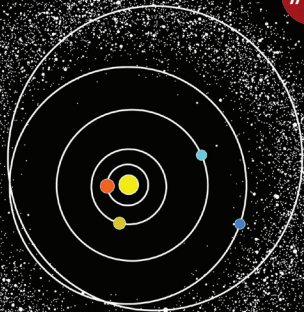
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#11



# Kuiper Belt

**Predicted:** 1951

**Fun Fact:** Contains hundreds of thousands of icy bodies that drastically range in size!

# Kuiper Belt

## **Hometown**

The Third Zone

## **Occupation**

Circling the Sun

## **Predicted By**

Gerard Kuiper

## **Area of Expertise**

Being Hard to Find

## **Noteworthy Achievement**

Redefining the Solar System

## **Website**

[minorplanetcenter.net/iau/mpc.html](http://minorplanetcenter.net/iau/mpc.html)

#11

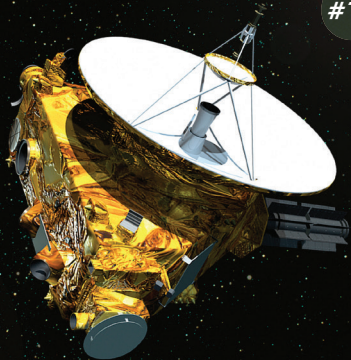


Produced by Lowell Observatory | [www.lowell.edu](http://www.lowell.edu)



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#12



# New Horizons

**Institution:** NASA

**Fun Fact:** It is powered by Plutonium!

# New Horizons

**Hometown**

Laurel, Maryland

**Occupation**

Deep Space Explorer

**Area of Expertise**

Traveling Very Fast

**Noteworthy Achievement**

First entity to encounter the Pluto System

**Hobbies**

Doing Science While Sleeping,  
Taking Fast Photographs of Pluto

**Website**

[pluto.jhuapl.edu](http://pluto.jhuapl.edu)

Image: NASA/JHU-APL/SwRI

#12



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*Dr. Leslie Young*

**PhD:** MIT

**Fun Fact:** Used the Pluto Telescope at Lowell Obs. to photograph the Hubble Space Telescope!

*Dr. Leslie Young*

**Hometown**

Newton, Massachusetts

**Occupation**

Planetary Astronomer

**Noteworthy Achievement**

Planned the science observations for the *New Horizons* encounter with Pluto

**Hobby**

Volunteer Firefighter for the Allenspark Fire Protection District

#13



Image: Courtesy Photo

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#14

Dr. Mark Tapley

**PhD:** Stanford

**Fun Fact:** Tapley's birthday is July 14, the same day as *New Horizons*' closest approach to Pluto!

Dr. Mark Tapley

**Occupation**

System Engineer

**Area of Expertise**

Orbital Mechanics

**Noteworthy Achievement**

Climbed Haleakala on Maui

**Hobbies**

Sailing, Collecting  
Classic Computers

#14



Image: Courtesy Photo

Produced by Lowell Observatory | [www.lowell.edu](http://www.lowell.edu)





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*Dr. Cathy Olkin*

**PhD:** MIT

**Fun Fact:** Olkin loves to fly in zero gravity!

*Dr. Cathy Olkin*

**Hometown**

W. Bloomfield, Michigan

**Occupation**

Astronomer

**Area of Expertise**

Surfaces and Atmospheres of  
the Outer Solar System

**Noteworthy Achievement**

Deputy Project Scientist on NASA's  
*New Horizons* mission

**Hobby**

Coaching Robotics Teams

#15



Image: Courtesy Photo

Produced by Lowell Observatory | [www.lowell.edu](http://www.lowell.edu)



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*Joe Peterson*

**Degree:** Cornell University

**Fun Fact:** Peterson's first word was "battery!"

*Joe Peterson*

**Area of Expertise**

Computer Software and Technology

**Hobby**

Skydiving

**Website**

wildlava.com/joe

#16



Image: Courtesy Photo

Produced by Lowell Observatory | [www.lowell.edu](http://www.lowell.edu)





← FOLD



## Dr. Simon Porter

**PhD:** Arizona State University

**Fun Fact:** Porter was a predoctoral fellow at Lowell Observatory!

## Dr. Simon Porter

**Hometown**  
Burlington, Ontario

**Occupation**  
Planetary Scientist

**Area of Expertise**  
Orbital Dynamics of Moons

**Institution**  
Southwest Research Institute

#17



Image: Courtesy Photo

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#18

*Dr. Mike Summers*

**PhD:** California Inst. of Technology

**Fun Fact:** Summers' hobby is Astrobiology!

*Dr. Mike Summers*

**Hometown**

Clifton, Virginia

**Occupation**

Professor of Planetary  
Science and Astronomy

**Area of Expertise**

Planetary Atmospheres

**Institution**

George Mason University

#18



Image: Courtesy Photo

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#19

*Dr. Yanping Guo*

**PhD:** Catholic University of America

**Fun Fact:** Guo designed NASA's New Horizons mission trajectory!

*Dr. Yanping Guo*

**Hometown**

Clarksville, Maryland

**Occupation**

Space Mission Designer

**Area of Expertise**

Interplanetary Mission Design

**Noteworthy Achievement**

Mission Design Lead of NASA's  
*New Horizons* mission

#19



Image: Courtesy Photo

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#20

Jamie Lee-Seck

**Degree:** College of Notre Dame of Maryland

**Fun Fact:** Developed an early interest in finance and accounting while working in the family business!

Jamie Lee-Seck

**Hometown**

Woodstock, Maryland

**Occupation**

Financial Manager

**Areas of Expertise**

Budgeting and Forecasting,  
Financial Analysis, Public Accounting

**Noteworthy Achievement**

Manages the *New Horizons*  
budget of \$722.3M

**Institution**

Johns Hopkins University  
Applied Physics Laboratory

#20



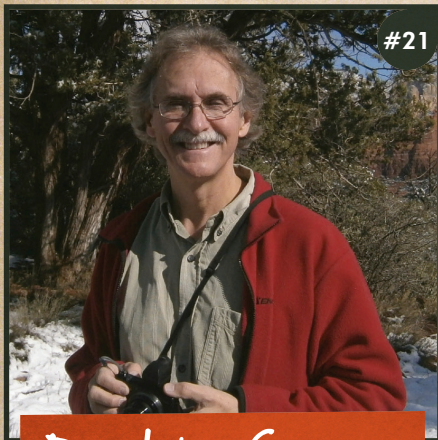
Image: Courtesy Photo

Produced by Lowell Observatory | [www.lowell.edu](http://www.lowell.edu)





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Dr. John Spencer

**PhD:** University of Arizona

**Fun Fact:** Led the team that discovered Kuiper Belt Objects *New Horizons* may fly by beyond Pluto!

Dr. John Spencer

**Hometown**

Colne, Lancashire, England

**Occupation**

Planetary Scientist

**Areas of Expertise**

The Moons of Jupiter and Saturn, Other Small Bodies in the Outer Solar System

**Noteworthy Achievement**

Member of five outer planet mission science teams, including *New Horizons*

**Hobbies**

Hiking, Photography

**Website**

[boulder.swri.edu/~spencer](http://boulder.swri.edu/~spencer)

Image: Courtesy Photo

Produced by Lowell Observatory | [www.lowell.edu](http://www.lowell.edu)





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## Coralie Jackman

**Degree:** University of Illinois

**Fun Fact:** Jackman has performed astrometry on small bodies since the age of 16!

## Coralie Jackman

**Hometown**  
Palatine, Illinois

**Occupation**  
Aerospace Engineer

**Area of Expertise**  
Optical Navigation

**Employer**  
KinetX

#22



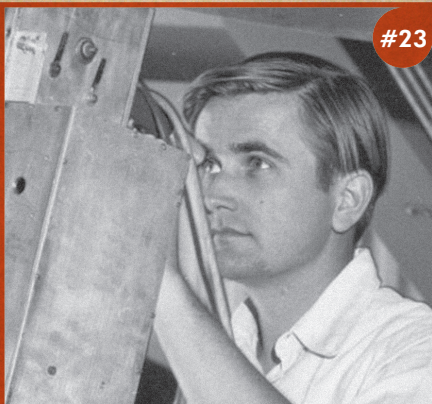
Image: Courtesy Photo

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#23

## Dr. Dale Cruikshank

**PhD:** University of Arizona

**Fun Fact:** Cruikshank discovered three types of ice on Pluto!

## Dr. Dale Cruikshank

### Occupation

Planetary Scientist

### Area of Expertise

Ices and Organics on  
Planets and Moons

### Institution

NASA

#23



Image: Courtesy Photo

Produced by Lowell Observatory | [www.lowell.edu](http://www.lowell.edu)



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# Dr. Con Tsang

**PhD:** University of Oxford, UK

**Fun Fact:** Tsang has been to all the continents, and lived in four of them. He also hates Marmite!

# Dr. Con Tsang

## **Occupation**

Planetary Scientist

## **Areas of Expertise**

Venus, Io, Suborbital Science

## **Noteworthy Achievement**

Discovered seasons on  
Jupiter's moon Io

## **Hobbies**

Private Pilot, Hiking

#24

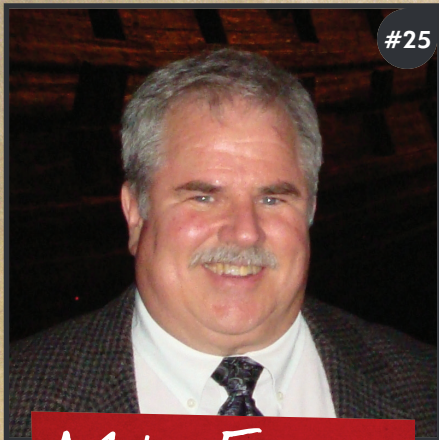


Image: Courtesy Photo

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#25

Mike Furrow

**Degree:** University of Maryland  
University College

**Fun Fact:** Led *New Horizons* Ground Software  
development effort from 2002 to 2010!

Mike Furrow

**Hometown**

Hanover, Maryland

**Occupation**

Software System Engineer

**Area of Expertise**

Developing Ground System Software

**Hobby**

Fishing

**Institution**

Johns Hopkins University  
Applied Physics Center

#25

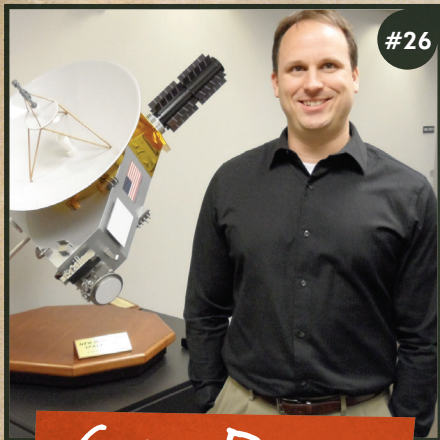


Image: Courtesy Photo

Produced by Lowell Observatory | [www.lowell.edu](http://www.lowell.edu)



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#26

# Gabe Rogers

**Degree:** University of Illinois

**Fun Fact:** Responsible for pointing *New Horizons* for all activities during the encounter!

# Gabe Rogers

## Hometown

Christopher, Illinois;  
Columbia, Maryland

## Occupation

Aerospace Engineer

## Areas of Expertise

Guidance and Control,  
Spacecraft Systems

## Noteworthy Achievement

Spacecraft Systems Engineer for  
the *New Horizons* mission

## Hobbies

Sailing, Being a Full-Time Dad

#26



Image: Courtesy Photo

Produced by Lowell Observatory | [www.lowell.edu](http://www.lowell.edu)





FOLD



*Dr. Richard Binzel*

**PhD:** University of Texas

**Fun Fact:** Binzel published his first scientific paper at 15!

*Dr. Richard Binzel*

**Hometown**

Washington Court House, Ohio

**Occupation**

Professor of Planetary Science

**Areas of Expertise**

Planetary Mapping  
and Compositions

**Noteworthy Achievement**

Discovered eclipses between  
Pluto and Charon in 1985

**Hobby**

Meteorite Collecting

#27



Image: Courtesy Photo

Produced by Lowell Observatory | [www.lowell.edu](http://www.lowell.edu)



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#28

## Stewart Bushman

**Degree:** University of Illinois at  
Urbana-Champaign

**Fun Fact:** Bushman builds Lego models of  
every spacecraft he works on!

## Stewart Bushman

### Hometown

Philadelphia, Pennsylvania

### Occupation

Aerospace Engineer

### Area of Expertise

Propulsion

### Noteworthy Achievement

Propulsion Lead on seven  
NASA spacecraft

### Institution

Johns Hopkins University  
Applied Physics Laboratory

#28



Image: Courtesy Photo

Produced by Lowell Observatory | [www.lowell.edu](http://www.lowell.edu)





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# Cindy Conrad

**Degree.:** University of Colorado  
Boulder

**Fun Fact:** Conrad is half Japanese!

# Cindy Conrad

## Occupation

Assistant to the *New Horizons*  
Principal Investigator

## Noteworthy Achievement

Helped ID and ship original Pluto  
discovery glass plates from Lowell  
Observatory to be scanned for  
ephemeris refinement

## Institution

Southwest Research Institute

#29



Image: Courtesy Photo

Produced by Lowell Observatory | [www.lowell.edu](http://www.lowell.edu)



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Eric Melin

**Degree:** Cornell University

**Fun Fact:** Melin actively plays tenor saxophone and sings in musical groups!

Eric Melin

**Hometown**

Long Valley, New Jersey

**Occupation**

Ground Software Developer

**Noteworthy Achievement**

Upgraded *New Horizons'* ground software to run on modern x86 hardware

**Institution**

Johns Hopkins University  
Applied Physics Laboratory

#30



Image: Courtesy Photo

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#31

## Dr. Kelsi Singer

**PhD:** Washington University, St. Louis

**Fun Fact:** Singer helps run a blog for Women in Planetary Science!

## Dr. Kelsi Singer

### Hometown

Denver, Colorado

### Occupation

Planetary Scientist

### Areas of Expertise

Planetary Geology and Geophysics,  
Icy Surfaces in the Solar System,  
Impact Cratering

### Noteworthy Achievement

Postdoctoral Researcher on  
NASA's New Horizons

### Website

[sites.google.com/site/kelsingsinger](https://sites.google.com/site/kelsingsinger)

Image: Courtesy Photo

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#31





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#32

*Dr. Mihaly Horanyi*

**PhD:** Eotvos Lorand University

**Fun Fact:** Horanyi is the PI of the Student Dust Counter on board *New Horizons*!

*Dr. Mihaly Horanyi*

**Hometown**

Budapest, Hungary

**Occupation**

Professor

**Area of Expertise**

Space Physics

**Hobbies**

Skiing, Biking, and Hiking

**Website**

[impact.colorado.edu](http://impact.colorado.edu)

#32



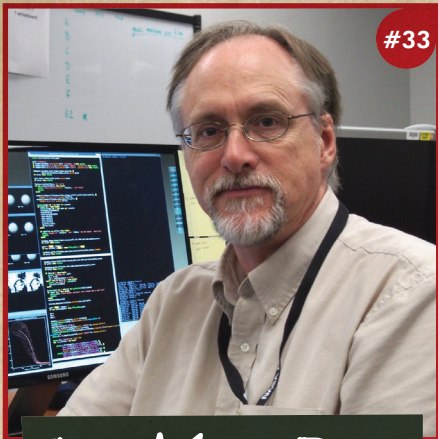
Image: Courtesy Photo

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## Dr. Marc Buie

**PhD:** University of Arizona

**Fun Fact:** Co-discoverer for half of the known Kuiper Belt objects!

## Dr. Marc Buie

### Hometown

Baton Rouge, Louisiana

### Occupation

Planetary Astronomer

### Area of Expertise

Pluto

### Noteworthy Achievement

Generated the best pre-New Horizons maps of Pluto

### Hobby

Playing Music

### Website

[boulder.swri.edu/~buie](http://boulder.swri.edu/~buie)

Image: Courtesy Photo

Produced by Lowell Observatory | [www.lowell.edu](http://www.lowell.edu)







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#34

*Dr. Bill McKinnon*

**PhD:** Caltech

**Fun Fact:** The license plate of his car for 24 years has been *TRITON* — Pluto's long-lost cousin, now a moon of Neptune!

*Dr. Bill McKinnon*

**Hometown**

New Orleans, Louisiana

**Occupation**

Professor, Planetary Geophysicist

**Areas of Expertise**

Icy Satellites, Kuiper Belt Objects,  
Impact Cratering

**Noteworthy Achievement**

Co-Investigator for NASA's  
*New Horizons* mission

**Hobby**

Space Music

#34



Image: Courtesy Photo

Produced by Lowell Observatory | [www.lowell.edu](http://www.lowell.edu)



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## Alissa Earle

**Degree:** Siena College (Predoc at MIT)

**Fun Fact:** Earle was an REU student at Lowell Observatory where she was inspired to get her PhD in Planetary Science!

## Alissa Earle

### Hometown

Clifton Park, New York

### Occupation

Graduate Student

### Noteworthy Achievement

One of the youngest members of the *New Horizons* encounter Science Team

### Hobbies

Horseback Riding, Running, Hiking

### Institution

Massachusetts Institute of Technology

#35

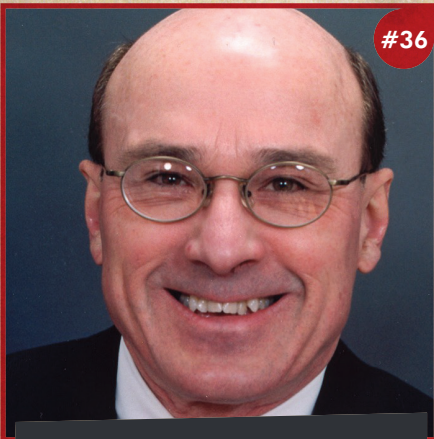


Image: Courtesy Photo

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#36

*Dr. Darrell Strobel*

**PhD:** Harvard University

**Fun Fact:** Strobel was the 2012 recipient of the Gerard P. Kuiper Prize!

*Dr. Darrell Strobel*

**Hometown**

Fargo, North Dakota

**Occupation**

Professor

**Areas of Expertise**

Planetary Atmospheres, Astrophysics

**Website**

[eps.jhu.edu/directory/darrell-strobel/](http://eps.jhu.edu/directory/darrell-strobel/)

#36



Image: Courtesy Photo

Produced by Lowell Observatory | [www.lowell.edu](http://www.lowell.edu)



← FOLD



#37

*Dr. Andy Cheng*

**PhD:** Columbia University

**Fun Fact:** Cheng parked the NEAR-Shoemaker spacecraft on asteroid 433 Eros and left it there!

*Dr. Andy Cheng*

**Occupation**

Planetary Scientist

**Noteworthy Achievement**

Led the team that designed and build LORRI

**Hobby**

Classical Piano

**Institution**

Johns Hopkins University  
Applied Physics Laboratory

#37



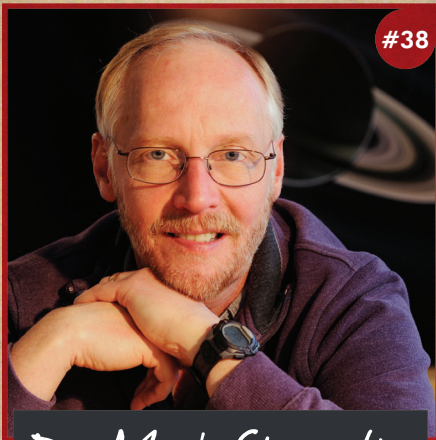
Image: Courtesy Photo

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*Dr. Mark Showalter*

**PhD:** Cornell University

**Fun Fact:** Showalter led the discoveries of two of Pluto's moons — Kerberos and Styx!

*Dr. Mark Showalter*

**Hometown**

Redwood City, California

**Occupation**

Planetary Astronomer

**Areas of Expertise**

Moons, Rings, Dynamics

**Noteworthy Achievement**

Also discovered moons of Saturn, Uranus, and Neptune

**Hobby**

Underwater Photography

**Website**

[seti.org/users/mark-showalter](http://seti.org/users/mark-showalter)

Image: Courtesy Photo

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#39

## Dr. Alex Parker

**PhD:** University of Victoria, Canada

**Fun Fact:** Parker is an international-award-winning digital media artist!

## Dr. Alex Parker

### Occupation

Planetary Astronomer

### Area of Expertise

History and Evolution  
of the Solar System

### Noteworthy Achievement

Co-discovered the Kuiper  
Belt Object that *New Horizons*  
will fly to after Pluto

#39



Image: Courtesy Photo

Produced by Lowell Observatory | [www.lowell.edu](http://www.lowell.edu)



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## Dale Stanbridge

**Degree:** California State University,  
Long Beach

**Fun Fact:** Navigated spacecraft to five different  
planets, including Pluto!

## Dale Stanbridge

### **Hometown**

Phoenix, Arizona

### **Occupation**

Spacecraft Navigation

### **Hobbies**

General Aviation, Cycling, Golf

### **Employer**

KinetX Aerospace

#40



Image: Courtesy Photo

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← FOLD



Jillian Redfern

**Degree:** University of Colorado  
Boulder

**Fun Fact:** Redfern went to high school in Japan!

Jillian Redfern

**Occupation**

Senior Research Analyst

**Area of Expertise**

Space Operations for Alice and  
Ralph on *New Horizons*

**Hobby**

Gardening

**Institution**

Southwest Research Institute

#41



Image: Courtesy Photo

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## Dr. Helen Hart

**PhD:** University of Colorado Boulder

**Fun Fact:** Hart used to drive semi-trucks — now she drives spacecraft!

## Dr. Helen Hart

### **Hometown**

Billings, Montana

### **Occupation**

Astronomer

### **Area of Expertise**

Space Mission Operations

### **Hobby**

Coloring, Modeling, Yoga, Walking

### **Institution**

Johns Hopkins University  
Applied Physics Laboratory

#42



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#43

*Dr. Matthew Hill*

**PhD:** University of Maryland

**Fun Fact:** Hill is the youngest member of the Voyager mission's Science Steering Group by 17 years!

*Dr. Matthew Hill*

**Occupation**

Experimental Space Physicist

**Noteworthy Achievement**

Co-Investigator on NASA's New Horizons and Solar Probe Plus missions

**Hobby**

Guitar

**Institution**

Johns Hopkins University  
Applied Physics Laboratory

#43



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# Brian Bauer

**Degree:** Washington University in St. Louis

**Fun Fact:** Bauer enjoys scuba diving!

# Brian Bauer

## Hometown

Chesterfield, Missouri

## Occupation

Systems Engineer

## Areas of Expertise

Spacecraft Design,  
Fault Protection/Autonomy

## Institution

Johns Hopkins University  
Applied Physics Laboratory

#44



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#45

# Dr. Joel Parker

**PhD:** University of Colorado Boulder

**Fun Fact:** Parker played drums in a band with other astronomers!

# Dr. Joel Parker

## Hometown

San Leandro, California

## Occupation

Astronomer

## Areas of Expertise

Kuiper Belt, Comets,  
Asteroids, Massive Stars

## Noteworthy Achievement

Science team member of  
missions to Pluto (*New Horizons*)  
and a comet (*Rosetta*)

#45



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#46

*Dr. Veronica Bray*

**PhD:** Imperial College London

**Fun Fact:** Bray held an archery world record for one day!

*Dr. Veronica Bray*

**Hometown**  
London, UK

**Occupation**  
Planetary Scientist,  
Targeting Specialist

**Areas of Expertise**  
Impact Cratering, Planetary Science

**Noteworthy Achievement**  
Commands the HiRISE camera on board MRO (Mars Reconnaissance Orbiter) to take photos of Mars

**Website**  
[veronicabray.com](http://veronicabray.com)

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#46







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#47

## Dr. Carly Howett

**PhD:** Oxford

**Fun Fact:** Howett works on two NASA missions — *Cassini* and *New Horizons*!

## Dr. Carly Howett

### **Hometown**

Braintree, UK

### **Occupation**

Planetary Scientist

### **Area of Expertise**

Understanding the  
Surfaces of Cold Worlds

### **Noteworthy Achievement**

Discovered a Pac-Man  
shaped surface anomaly on  
three of Saturn's moons

### **Website**

[boulder.swri.edu/~howett/](http://boulder.swri.edu/~howett/)

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#47





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#48

*Alice Bowman*

**Degree:** University of Virginia,  
Charlottesville

**Fun Fact:** Plays bass and sings in a bluegrass band!

*Alice Bowman*

**Hometown**

Richmond, Virginia

**Occupation**

Engineer

**Noteworthy Achievement**

Mission Operations Manager  
(aka: MOM) for NASA's New  
Horizons mission

#48

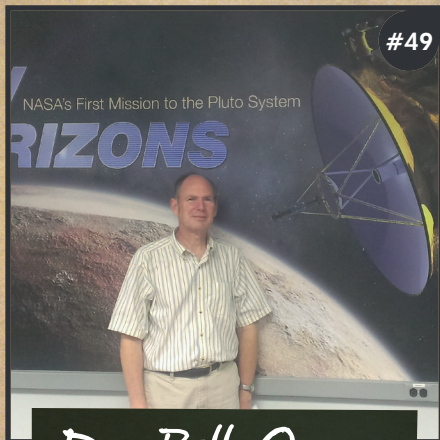


Image: Courtesy Photo

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*Dr. Bill Owen*

**PhD:** University of Florida

**Fun Fact:** AYSO Region 13 (Pasadena, CA) has named a soccer tournament for him!

*Dr. Bill Owen*

**Occupation**

Baltimore, Maryland

**Occupation**

Navigation Engineer

**Area of Expertise**

Optical Navigation

**Noteworthy Achievement**

Has been (vicariously) to all the other planets now, courtesy of *Voyager*, *Galileo*, and *New Horizons*

**Hobbies**

Soccer Refereeing, Singing,  
Counted Cross-Stitch

#49



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## Sarah Hamilton

**Degree:** University of Maryland  
University College

**Fun Fact:** Hamilton flies both full scale  
and radio controlled airplanes!

## Sarah Hamilton

### Hometown

Columbia, Maryland

### Occupation

Aerospace Engineer

### Area of Expertise

Space Mission Operations

### Hobbies

Biking, Hiking, Camping, Skiing,  
Playing With Her Kids

### Institution

Johns Hopkins University  
Applied Physics Laboratory

#50



Image: Courtesy Photo





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## Dr. Orkan Umurhan

**PhD:** Columbia University

**Fun Fact:** Decided to be an astronomer at the age of nine while watching live Voyager I downlink feeds with his father!

## Dr. Orkan Umurhan

### Hometown

Los Angeles, California

### Occupation

Applied Mathematician,  
Planetary Scientist

### Areas of Expertise

Fluid Dynamics,  
Landform Evolution

### Hobbies

Music, History, Kayaking,  
Surfing, Hiking

#51



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*Nick Pinkine*

**Degree:** University of Maryland

**Fun Fact:** Pinkine enjoys golf!

*Nick Pinkine*

**Hometown**

Baltimore, Maryland

**Occupation**

Mission Operations Specialist

**Institution**

Johns Hopkins University  
Applied Physics Laboratory

#52



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#53

*Kirby Runyon*

**Degree:** Johns Hopkins University

**Fun Fact:** Helped identify future lunar polar landing sites to study lunar volatiles!

*Kirby Runyon*

**Hometown**

Spring Arbor, Michigan

**Occupation**

Planetary Geologist

**Areas of Expertise**

Planetary Geomorphology,  
Mission Planning

**Hobby**

Swing Dancing

#53

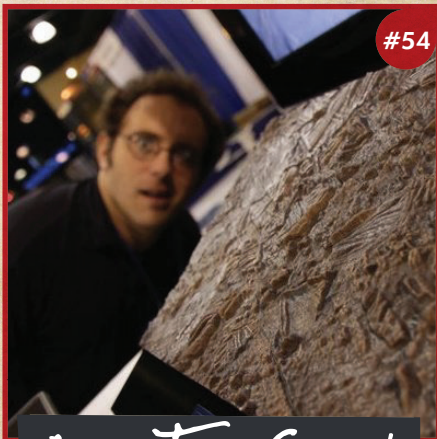


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#54

# Dr. Ted Stryk

**PhD:** University of Tennessee

**Fun Fact:** Became interested in planetary science at age 10 after seeing pictures from *Voyager* approaching Neptune and *Phobos-2* orbiting Mars!

# Dr. Ted Stryk

## Hometown

Bristol, Virginia

## Occupation

Philosophy Professor

## Areas of Expertise

Image Processing, Finding Old Datasets, Philosophy of Science

## Noteworthy Achievement

He is an Interplanetary Dumpster-Diver Extraordinaire a.k.a. he recovered new information from old data

#54



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#55

## Dr. Dalle Ore

**PhD:** University of California  
Santa Cruz

**Fun Fact:** Loves to run and hike with her dogs!

## Dr. Dalle Ore

### Hometown

Cupertino, California

### Occupation

Senior Research Scientist

### Area of Expertise

Spectroscopy of Outer  
Solar System Surfaces

### Noteworthy Achievement

She is a mother of three

### Hobby

Data Analysis

#55



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#56

## Andrew Chaikin

**Degree:** Brown University

**Fun Fact:** Met astronaut Alan Bean when he was a 12-year-old space fanatic, now they have co-authored two books!

## Andrew Chaikin

### Hometown

Great Neck, New York

### Occupation

Space Historian, Science Journalist

### Areas of Expertise

Planetary Science, Space History

### Noteworthy Achievement

Wrote *A Man on the Moon*, the book that was used as the basis for Tom Hanks' Emmy-winning miniseries "From the Earth to the Moon"

### Hobby

Songwriting

Image: Courtesy Photo

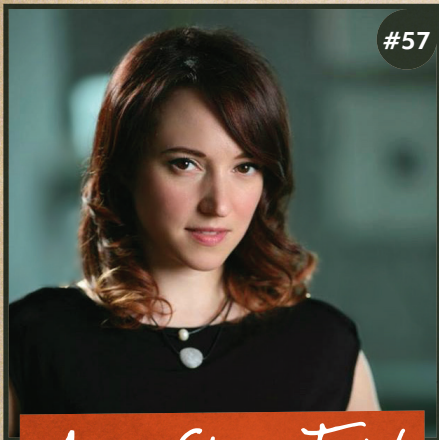
#56



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#57

*Amy Shira Teitel*

**Degree:** York University, Toronto

**Fun Fact:** Teitel can fit safely in most overhead compartments!

*Amy Shira Teitel*

**Hometown**

Toronto, Canada

**Occupation**

Freelance Space Historian,  
Professional Space Nerd

**Area of Expertise**

Spaceflight History

**Noteworthy Achievement**

Secured a book deal with a major publisher and was invited to join a NASA mission all before turning 30

**Hobbies**

Kickboxing, Weight Lifting

#57



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*Sarah Flanigan*

**Degree:** Cornell University

**Fun Fact:** A Girl Scout trip to a Challenger Center for Space Science Education inspired her to pursue a career in space exploration!

*Sarah Flanigan*

**Hometown**

Gainesville, Virginia

**Occupation**

Aerospace Engineer

**Noteworthy Achievement**

*New Horizons* Deputy Lead Guidance and Control Engineer, MESSENGER Lead Guidance and Control Engineer

**Hobbies**

Gardening, Weightlifting, Running, Spending Time with Liam, her Husband, and Oona, Her Daughter

#58



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