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 Fourth Quarter

# PSF NEWS

Planetary Studies Foundation

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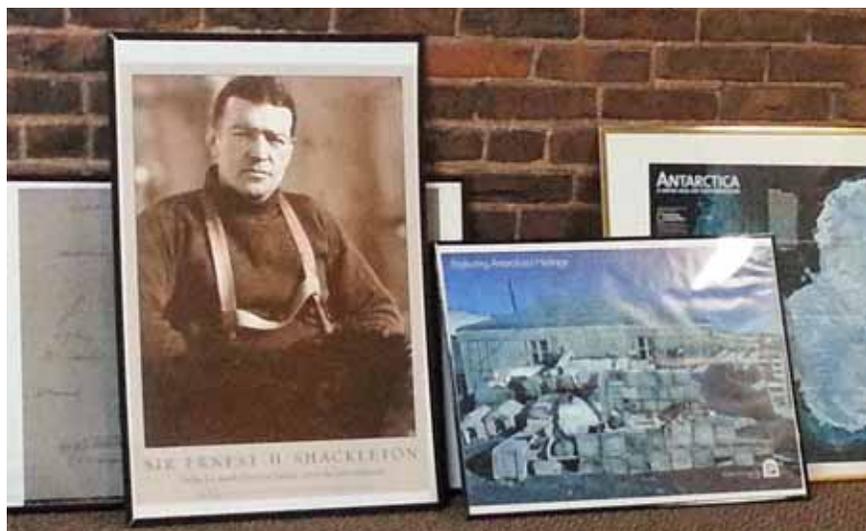
## GRAND OPENING FEBRUARY 8<sup>th</sup>

### PSF EARTH & SPACE SCIENCE MUSEUM

ANTARCTICA • APOLLO PROGRAM • ASTRONAUTS  
 FOSSILS • LIBRARY • METEORITES



Jim Paglin and Dave Lauerman in front of StarLab (above left), PSF members listening to a call with astronaut Bill Anders (above right) and memorabilia from Antarctica room



# PRESIDENT'S MESSAGE

This final quarter of the 2013 year has been the most "action-packed" in recent memory. In August the PSF Executive Board approved a plan to rent space on Main Street in Elizabeth, Illinois for the establishment of an *Earth & Space Science Museum*. We now have over 4000 square-feet of space (two levels) to work in and it is right on main-street where people can't miss us. The lower level will feature five exhibit rooms and a reading room. This will be perfect for displaying many of our geology specimens, astronaut memorabilia, meteorites and Antarctic educational materials. With the upper level we will have sufficient space to set-up our STARLAB inflatable planetarium for scheduled weekly programs. With this new facility we will nearly double our educational programs for 2014!

We have many people and organizations to thank for making this possible. In remembrance, the first-floor reading room will be dedicated to the late **Karen S. Lauerman**, wife of PSF Founder **David M. Lauerman**, who passed away in 1990. This room was made possible from donations made to PSF in 1990 to remember Karen's dedication to teaching and her love of reading. Next, our thanks to Associate Board member **J.N. Pritzker** and the Tawani Foundation for her generous "start-up" gift that guarantees our operation for the first two-years. We also thank Associate Board member **Nate Greiner**, his **wife Karen** and *Design Mill*, the former occupant, for their in-kind donation of furniture, computers, and labor in helping "spruce-up" the facility. Furnishing such a large facility is no easy task and PSF members **Martha and Max Purchis** stepped right up and donated a conference table, office chairs, lamps, file cabinets, and lobby furniture. We are also grateful to our members who have donated various objects over the years, even when there was no immediate need for these items. PSF values every donation and if even when we can't immediately use it we carefully store it away for the future. This is true for several important educational artifacts donated by members **Bill and Claudia Gruber**. Years ago they donated several beautifully framed dinosaur, space and aviation posters. Now these items will be prominently displayed throughout the new museum. The same is true for many framed pictures previously donated by members **Jim and JoAnne Schwade**. One of our exhibit rooms will feature dinosaurs thanks to a generous donation of a selection of dinosaur fossils from member **Blaine Reed** and a dinosaur egg from member **Conrad Wragg**. In addition, many of Conrad's meteorites will be featured in our meteorite exhibit. Perhaps an individual's time may be one of the most valuable contributions. We thank **Gavin Glasgow, Christina Hollis, Wulf Clifton** and **Isaac Steffes** for helping move furniture and to **Wanona Wellspring** for her wall-papering skills and her husband **Bill Ceisel** for his electrical expertise. Also thanks to **Jack and Jane Yoder** for their donation of 12 spindles for the *Banwarth House* veranda renovation, and to **Randy Shaw** for installing them. We are very fortunate to have such dedicated members who contribute their time and materials, but let's not forget our cash donors. We thank these members as an unnamed group that will be properly recognized in the Donor's Spotlight.



Your PSF Executive Board is very excited about all the activities that will take place in 2014. Our staff at the *1876 Banwarth House and Museum* has scheduled a variety of cultural programs and workshops and is still looking for additional volunteer presenters. One of the added benefits from having two museums is the opportunity for a "two-for" experience. Admittance to the *Earth & Space Science Museum* on Main Street buys you a "free" admission to the *1876 Banwarth House & Museum*, and vice-versa. In doing so, we hope to introduce more people to the variety of educational programs that PSF has to offer. We are confident that this new approach will be successful. If that's not enough, PSF is still committed to the expansion of our *JETS Observatory* in Freeport, Illinois. **Jim Dole**, its director, has informed me that the construction plans are coming along nicely and he is expanding the educational offerings at the observatory.

2013 was PSF's 25<sup>th</sup> year in operation and it turned-out to be a "water-shed" year. As we enter the next quarter century PSF is well positioned to continue and grow our educational programs and to maintain our contributions to meteorite research. I thank you all for being a part of this wonderful institution.

**HAPPY HOLIDAYS**

**Paul P. Szipiera**

# DONOR'S SPOTLIGHT

## A Special Thank You

Col. J.N. Pritzker

The Planetary Studies Foundation would like to thank Col. J.N. Pritzker for her continued financial support of our "Science in Our Changing World" program. This highly successful program is now entering its sixth year and has provided educational experiences for thousands of students and individuals throughout the northwest Tri-State region. Her grant also provides partial support for both our *1876 Banwarth House and Museum* and meteorite research. In addition to this annual grant Col. Pritzker, through her Tawani Foundation, made a generous gift to our new *Earth & Space Science Museum* to help us get it off the ground. On behalf of the entire northwest Tri-State community we sincerely thank Col. Pritzker for her continued faith and trust in the Planetary Studies Foundation.

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## Year-End Contributions

### \$500 - \$2000

Galena State Bank (Elizabeth Banking Center)  
 Lancaster Family Foundation  
 David M. Lauerman  
 Diane & Paul Sipiera

### \$100-\$499

Apple River State Bank (Elizabeth Branch)  
 Todd Gephart, M.D.  
 Jim & Lu Paglin  
 Bob Renguso  
 Linda Virag  
 Herb Windolf

### \$25-\$99

Leo & Karen Baran  
 Cecilia Cooper  
 Richard Friedman  
 Anne Swan-Johnson  
 Jerry Mathers  
 Joan & Larry Reylek  
 Marilyn Quas

CONTINUED FROM PREVIOUS PAGE

# MEMBER'S CORNER

## NEW MEMBERS

### BUSINESS

Robert Dittmar Insurance Agency

### INDIVIDUAL

Larry Fulfs

Jerry Speer

## RENEWING MEMBERS

### SPONSORING

Carol Dehnbostel

### FAMILY

Joe & Bonnie Garrity

### INDIVIDUAL

Jerome Clair

Kim Courtright

Carolyn Walmann

Carl & Carol Schwerdtfeger

## CONGRATULATIONS

- Congratulations to **Caroline Szipiera** for making the National Honor Society at River Ridge High School.
- As always, the **Pritzker Military Museum and Library** had a successful gala this past November. If any of our PSF members will be in the Chicago area, please stop by at 104 S. Michigan Ave., Chicago, IL or check out their website at [www.pritzkermilitary.org](http://www.pritzkermilitary.org).
- **Alan Myelle** and **Anthony Martinez** are Juniors at Le-Win High School and were key players during the Illinois State Championship football game in November. Anthony and Alan, defensive linemen, worked as a team to recover a fumble that resulted in a touchdown. They won the Class 1A State Football Championship this year. Congrats!



## CONDOLENCES

### TRIBUTE TO SCOTT CARPENTER & ANDREA DUBNICK

**SCOTT CARPENTER**—One of PSF's well-known astronauts passed away this fall at age 88. He was born and raised in Boulder, Colorado, but later lived in Vail, Colorado with his wife, Patty. He spoke at the PSF's 2005 Fundraising Dinner. Besides being our dinner speaker, Scott spent a great deal of time speaking to individuals about various personal endeavors. Carpenter and PSF executive director, Diane Sipiera spoke about their common adventures of hiking through Colorado, especially the Chautauqua Trail in Boulder, Colorado.



Scott Carpenter was known for many things; in 1962 Carpenter became the second American to orbit the earth, piloting the Aurora 7 spacecraft through three revolutions of the earth. He was the backup pilot for John Glenn during preparation for the first US manned orbital space flight in February 1962, and gave the historic send-off to his teammate: "Godspeed, John Glenn." Scott Carpenter did not go back into space but later joined the US Navy's SeaLab II program and in 1965 spent 30 days under the ocean off the coast of California.



Source: www.dailymedia.com

At the PSF dinner he spoke about his adventures as an aquanaut and oceanography.

After his retirement from the navy, he founded his company Sea Sciences, working closely with diver and researcher Jacques Cousteau.

Scott Carpenter's wife, Patty Barrett, said her husband had suffered complications following a stroke in September and died in a Denver hospice. The PSF personnel will miss the periodic emails about up-to-date topics on oceanography from him. Scott was a delight to work with.

**ANDREA DUBNICK**—On October 21, 2013, PSF lost a dedicated member, Andrea Dubnick. Andrea and her husband Allen Reed volunteered their time in PSF by providing programs. Many of you may have met her at their Beekeeping presentation in the spring of 2012 and this past summer's presentation Swordplay from the Middle Ages to Present.

Andrea was born May 7, 1950 in Oak Park, IL. Andrea worked at Northwestern University as a secretary in the Anthropology Department for over fifteen years. She married C. Allen Reed and they moved to Leaf River from Chicago in 2003.

She loved to read and interpret history as a member of the Society for Creative Anachronism. Andrea was a volunteer at the Apple River Fort State Historic Site in Elizabeth, IL. She also volunteered in the community with the mentor program of the Forestville Valley Youth Network, the VITAL program at Sauk Valley Community College, and served on the Board of Trustees of the Bertolet Memorial Library. Andrea also was a beekeeper for the last 5 years. In her spare time Andrea helped to edit and write stories for the Twilight Tales Reading series and with her co-editor Tina Jens shared a Bram Stoker Award in 2000.

Andrea will be missed by both her husband Allen and the PSF family.



# CALENDAR OF EVENTS

## LECTURE SERIES & WORKSHOPS

### STARLAB SHOW: WINTER CONSTELLATIONS

PSF EARTH & SPACE SCIENCE MUSEUM  
SATURDAY, JANUARY 18TH  
SHOWS AT 11:00AM and 1:00PM

*The chill of winter brings with it crisp, bright winter skies, perfect for nighttime stargazing if you bundle up. Diane Sipiera will bring the beauty of the winter sky into the warm confines of StarLab during her presentation inside the inflatable planetarium. Her program will introduce you to Orion the Great Hunter, Taurus the Bull, Canis Major and Gemini the Twins. Starlab will feature the winter constellations with shows beginning promptly at 11:00 a.m. and 1:00 p.m.*

### HONORING AMERICA'S FALLEN ASTRONAUTS

PSF EARTH & SPACE SCIENCE MUSEUM  
SATURDAY, JANUARY 25TH  
1:00PM

*NASA has been in existence for over 55 years, during which 339 astronauts have been selected and 12 of those 339 have walked on the moon. Dr. Paul Sipiera, Ph.D. will be giving an informative presentation on our fallen astronauts who have given us the ability for space travel. Dr. Sipiera's discussion will include Apollo 1 and the Challenger and Columbia disasters. This program has been made to honor our fallen U.S. astronauts.*

### STARLAB SHOW: WINTER CONSTELLATIONS

PSF EARTH & SPACE SCIENCE MUSEUM  
SATURDAY, FEBRUARY 1ST  
SHOWS AT 11:00AM AND 1:00PM

*The chill of winter brings with it crisp, bright winter skies, perfect for nighttime stargazing if you bundle up. Diane Sipiera will bring the beauty of the winter sky into the warm confines of StarLab during her presentation inside the inflatable planetarium. Her program will introduce you to Orion the Great Hunter, Taurus the Bull, Canis Major and Gemini the Twins. Starlab will feature the winter constellations with shows beginning promptly at 11:00 a.m. and 1:00 p.m.*

**SCI-FI SATURDAY AT 3:00 PM!**

### **\*\*SPECIAL EVENT\*\***

### PSF 25TH ANNIVERSARY

PSF EARTH & SPACE SCIENCE MUSEUM  
SATURDAY, FEBRUARY 8TH  
1:00PM

*Celebrate 25 years of the Planetary Studies Foundation with the grand opening of the new PSF Earth & Space Science Museum. Tour the new meteorite, Antarctic exploration, fossil and Apollo rooms. More information to follow.*

### WORKSHOP: SCHERENSCHNITTE

1876 BANWARTH HOUSE & MUSEUM  
SATURDAY, FEBRUARY 1ST  
1:00PM

*Scherenschnitte means 'scissor cuts' in German and is the art of paper cutting design. The art tradition was founded in Switzerland and Germany in the 16<sup>th</sup> Century and brought to Colonial America in the 18<sup>th</sup> century by immigrants. Jolene Foat will guide you through the basics of German paper cutting in an afternoon class. Learn how to cut a design in to paper and craft a paper masterpiece just in time for Valentine's Day. PSF asks for a \$3.00 donation to help cover supply cost.*

### BIRTHDAY OF ANTARCTIC EXPLORER, ERNEST SHACKLETON

PSF EARTH & SPACE SCIENCE MUSEUM  
SATURDAY, FEBRUARY 15TH  
1:00PM

*Join Dr. Paul Sipiera, Ph.D. as you learn about the incredible life and Antarctic expeditions of Ernest Shackleton. Find out what made this man unique in his polar exploration and view details of his icy journeys in this presentation.*

**SCI-FI SATURDAY AT 3:00 PM!**

## DAY AFTER VALENTINE'S DAY CHOCOLATE BINGE

1876 BANWARTH HOUSE & MUSEUM

SATURDAY, FEBRUARY 15TH

1:00PM

*What better way to spend the day after Valentine's Day than in a sea of chocolate? Maybe you didn't do anything special, have a date or your boyfriend (or husband!) forgot all about it. Or maybe you had a great Valentine's Day and just want to kick back and enjoy the chocolate! There is never a day when chocolate isn't great so come to the Banwarth House and get your chocolate fix during this one day special.*

## STARLAB SHOW: CONSTELLATIONS

PSF EARTH & SPACE SCIENCE MUSEUM

SATURDAY, FEBRUARY 22ND

SHOWS AT 11AM AND 1PM

*Join Diane Sipiera as she discusses the current nighttime sky. Using the StarLab portable planetarium, Diane will guide you through the constellations and explain the mythology behind them.*

## WORKSHOP:

### DOLL MAKING SERIES - PART I

1876 BANWARTH HOUSE & MUSEUM

SATURDAY, MARCH 1ST

1:00PM

*Join local artisans Jolene Foat and Martha Purchis in making handmade dolls out of handkerchiefs! More information about the styles and patterns will follow as the date gets closer.*

## STARLAB SHOW: CONSTELLATIONS

PSF EARTH & SPACE SCIENCE MUSEUM

SATURDAY, MARCH 1ST

SHOWS AT 11AM AND 1PM

*Join Diane Sipiera as she discusses the current nighttime sky. Using the StarLab portable planetarium, Diane will guide you through the constellations and explain the mythology behind them.*

**SCI-FI SATURDAY AT 3:00 PM!**

## STARLAB SHOW: CONSTELLATIONS

PSF EARTH & SPACE SCIENCE MUSEUM

SATURDAY, MARCH 8TH

SHOWS AT 11AM AND 1PM

*Join Diane Sipiera as she discusses the current nighttime sky. Using the StarLab portable planetarium, Diane will guide you through the constellations and explain the mythology behind them.*

## WORKSHOP:

### DOLL MAKING SERIES - PART II

1876 BANWARTH HOUSE & MUSEUM

SATURDAY, MARCH 15TH

1:00PM

*Join local artisans Jolene Foat and Martha Purchis in making handmade dolls out of handkerchiefs! It will be a different doll than what was made in the first workshop. More information about the styles and patterns will follow as the date gets closer.*

Be sure to follow the Planetary Studies Foundation on social media for the latest updates, changes and event details!

### Planetary Studies Foundation

Website: [www.planets.org](http://www.planets.org)

Facebook: Planetary Studies Foundation

Twitter: @PSF1989

### 1876 Banwarth House & Museum

Website: [www.banwarthmuseum.com](http://www.banwarthmuseum.com)

Facebook: 1876 Banwarth House & Museum

Twitter: @PSF1989

#### Event Sites:

**1876 Banwarth House & Museum**  
408 E. Sycamore Street, Elizabeth, Illinois

**PSF Earth & Space Science Museum**  
115 N. Main Street, Elizabeth, Illinois

**\*\*All programs are free for PSF Members and \$5.00 for the general public unless otherwise noted.**

# INTERVIEW SPOTLIGHT JAMES BARANSKI

## WHAT IS YOUR CURRENT PROFESSION AND WHAT INSPIRED YOU INTO THAT CAREER?

I work as an architect. When I was young, I was fascinated with stadiums. I started building models of stadiums when I was 11 or 12. My aunt bought me my first drawing board with parallel rule when I was 13, and from that time I started drawing buildings.

## HOW DID YOU BECOME INVOLVED WITH THE PSF?

Paul and Diane approached me about helping them with a proposed planetarium and I've been involved with the Planetary Studies Foundations ever since.

## WHICH AREA OF SCIENCE INTERESTS YOU THE MOST?

Physics, especially quantum mechanics and string theory.

## DO YOU HAVE ANY HOBBIES OR SPECIAL INTERESTS?

Traveling is my favorite hobby.

## WHAT IS YOUR FAVORITE PLACE YOU HAVE TRAVELED AND WHY?

Italy, especially Florence. I really appreciate the vibrancy of European cities in general, but find Florence particularly appealing. I appreciate both the architecture and the food.



## WHERE DO YOU SEE YOURSELF IN TEN YEARS?

Hopefully, still practicing architecture. Architects usually hit their stride in their mid to late 50's.

## WHAT IS ONE THING YOU WISH PEOPLE KNEW ABOUT YOU?

That I invented Post-it Notes.

## DO YOU HAVE ANY EXCITING PLANS FOR 2014?

Our son just started at the University of Chicago, so I don't have any exciting plans for the next four years.

## WHAT ADVICE WOULD YOU GIVE TO OUR YOUNGER MEMBERS?

Do what you love.

# BLAST FROM THE PAST: THE APOLLO 8 CHRISTMAS EVE BROADCAST

Many of our readers may recall Christmas Eve of December 24th, 1968 when Apollo 8 orbited the moon. That evening, the astronauts; Commander Frank Borman, Command Module Pilot Jim Lovell, and Lunar Module Pilot William Anders did a live television broadcast from lunar orbit, in which they showed pictures of the Earth and Moon seen from Apollo 8. PSF is very proud to have two of the three astronauts as members. Since this is the holiday season, PSF would like to share the following quotes:

***Jim Lovell:***

"The vast loneliness is awe-inspiring and it makes you realize just what you have back there on Earth." They ended the broadcast with the crew taking turns reading from the book of Genesis.

***William Anders:***

"For all the people on Earth the crew of Apollo 8 has a message we would like to send you".

"In the beginning God created the heaven and the earth. And the earth was without form, and void; and darkness was upon the face of the deep. And the Spirit of God moved upon the face of the waters. And God said, Let

there be light: and there was light. And God saw the light, that it was good: and God divided the light from the darkness."

***Jim Lovell:***

"And God called the light Day, and the darkness he called Night. And the evening and the morning were the first day. And God said, Let there be a firmament in the midst of the waters, and let it divide the waters from the waters. And God made the firmament, and divided the waters which were under the firmament from the waters which were above the firmament: and it was so. And God called the firmament Heaven. And the evening and the morning were the second day."

***Frank Borman:***

"And God said, Let the waters under the heavens be gathered together unto one place, and let the dry land appear: and it was so. And God called the dry land Earth; and the gathering together of the waters called the Seas: and God saw that it was good."

Borman then added, "And from the crew of Apollo 8, we close with good night, good luck, a Merry Christmas, and God bless all of you - all of you on the good Earth."



PSF Member Contributor

# PRAGMATISM

## BY HERB WINDOLF

“What’s Pragmatism? Does it work on my smart-phone? What will it do for me?” you may ask.

Well, as a first step: If you engage an app, a search engine on your smart-phone, entering “pragmatism,” you will get a definition. Old-fashioned as I am, I googled it and here’s the shortest one I found:

“A practical, matter-of-fact way of approaching or assessing situations or of solving problems.”

You may now think: What the heck? Of course that’s how things get done! But this assumes we are rational beings, which we are not! Our prime motivator is emotion, with beliefs founded on emotion! And beliefs need not be of a religious nature. Oh no, we find plenty of “belief” in the scientific endeavor. A scientist may hold dear a theory he has worked on for ages and has great difficulty letting go of, even when facts argue against it.

Whenever we face a problem, what is necessary to tackle it is the engagement of “ratio,” reason. But to put aside our emotional engagement on the subject in order to concentrate on how to solve the problem and to engage Pragmatism, is no easy task!

Permit me now a brief introduction to the originators of Pragmatism.

Since Classical Greek and Roman times, there have been prominent philosophers, such as the Greeks: Epicurus, Democritus, and Plato; the Romans: Pliny, Plutarch, and Cicero;

the Germans: Kant, Hegel, and Nietzsche; and the French: Descartes and Sartre. While each of these men, together with their many other ‘seekers,’ contributed to the human font of knowledge, the most notable

American philosophy (philosophy meaning ‘Love of Wisdom’), typifying the American mind, is Pragmatism – meaning to have a penchant for the practical.

The originators of Pragmatism in the second half of the 19th century were Charles Peirce, William James, and John Dewey.

To quote Raymond Pfeiffer on the subject in *Philosophy Now*:

“Pragmatism was originally the thesis that the meaning of an idea can be found by attention to its practical consequences. Such an idea is no mere penchant for the practical: Rather, it is a direct and specific theory of meaning with implications beyond the laboratory and the library.”

And further:

“Pragmatism was one way he (Peirce) applied logic and the methodology of science to philosophy. His theory of knowledge was *fallibilist*, breaking with much of the philosophical tradition and maintaining that some beliefs are true, some not, but that no knowledge is infallible, and that there is no certainty.”

Pfeiffer quotes William James as saying:

“(He) maintained that the practical needs of humans in this world might justify beliefs and practices that cannot otherwise be proven true. The faith of our fathers and mothers might be reasonable not because it is true,

but because it is practical.”

Dewey is said to have “viewed the old philosophical search for real, final truths as a threat rather than a virtue. It is the search for knowledge that emerges from the junk heap of human thought and misguided prophets. Whatever promotes thinking, dialogue and rational inquiry should be encouraged, and whatever stifles it avoided.”

To list some of the best characteristics of American Pragmatism as stated by Pfeiffer:

a. “The extent to which an idea fulfills important human goals, clarifies the idea and also provides evidence for and against the likelihood of its truth.

b. Sharp, fixed distinctions of thought and reality are not reflected in nature, where one thing fades off into the next, one flows into the other and the complexity of our thought is clarified only by theories that give tentative illumination to reality.”

And, last not least,

c. “Whatever promotes reasoned dialogue, inquiry and further understanding is good, and what stifles it is bad.”

Are we now getting closer to an answer to the third question asked initially: What will Pragmatism do for me?

Sadly, as we observe the political goings-on on the national level, we can say that American Pragmatism has gone by the wayside! On a personal level: What is bullying in schools to accomplish, based on irrationality and emotions. Does it solve any problem? Does it promote well-being?

Allow me to close on a personal note. On a cursory level I became acquainted with Pragmatism decades ago when I still lived in Germany. While I did not know anything of its originators and its deeper meanings, the practical applications, and their American origin held a profound attraction for me, and in a small way contributed to my settling in the United States of America.

So, some time ago, I wrote a poem in which I expressed my sentiment on the subject, calling it:

## PRAGMATISM

Once, many, many years ago  
I came across this magic word,  
so plain and yet so real.  
It stayed with me throughout  
my life, had import and appeal.  
And without delving into it,  
it was my guiding light  
to find solutions, how to deal,  
with all of life's contingencies.  
Be practical, find out what works,  
and if it doesn't, change your tack.  
Thus did I work, not all was swell,  
but in the end, lo and behold,  
much that I did work out quite well.

And, not to forget, Pragmatism implies the application of tolerance, for without tolerance we will be unable to find solutions to the problems we are facing.

Nelson Mandela, while coming close to being a saint, was first and foremost a supreme pragmatist. ♦

## ABOUT THE AUTHOR

*Born in 1936 in Wiesbaden, Germany, Herbert Windolf is a German citizen. Since the early 1990s, he and his wife, Ute, have resided in Prescott, Arizona. Married in 1961, they have three children, Dirk, Kirsten and Karen. In 1964, he joined his German employer, a machine tool company, as a technician for transfer to Canada and in 1970 relocated to Chicago as sales manager. He became managing director, then vice president of the U.S. affiliate and eventually the importer for the company.*

*After moving to Prescott, he facilitated various scientific courses at a local adult education center. He holds a bachelor's degree in anthropology. He has translated and published 17 books (from German to English), including 500 poems, and has written a biographical account of his wife's grandparents and parents who were Lutheran missionaries in Sumatra.*

*Widely traveled, he has written numerous travelogues. His scientific articles were published in the Quarterly of the Planetary Studies Foundation, where he is Vice President Emeritus. One very unique thing about Herb, is an astronomer friend has named an asteroid after him.*

*Herb is a life-time member of the PSF and became friends with Paul some time in 1979/80, when he took geology and astronomy classes with him.*

## CELESTIAL EVENTS

### JAN. 2, 3—QUADRANTIDS METEOR SHOWER

The Quadrantids is an above average meteor shower with up to 40 meteors per hour at its peak. It is thought to be produced by dust grains left behind by an extinct comet known as 2003 EH1. Meteors will radiate from the constellation Bootes, but can appear anywhere in the sky.

### JAN. 27—FULL MOON

This full moon was known by early Native American tribes as the Full Wolf Moon because this was the time of year when hungry wolf packs howled outside their camps.

### FEB. 16—MERCURY AT GREATEST EASTERN ELONGATION

The planet Mercury will be at its furthest angle from the Sun, known as greatest elongation. It will be at its highest point in the night sky after sunset. This is the best time to try to view Mercury since it stays so close to the Sun.

### FEB. 18—CONJUNCTION OF THE MOON AND JUPITER

The Moon will pass less than one degree from the giant planet Jupiter in the evening sky. The pair will be visible in the evening sky for about 7 hours after sunset.

### FEB. 25—FULL MOON

This full moon was known by early Native American tribes as the Full Snow Moon because the heaviest snows usually fell during this time of the year.

# MEMBERSHIP FORM

Regular Membership      \_\_\_ \$ 20.00 1 year    **or** \_\_\_ \$ 35.00 for 2 years  
 Family Membership      \_\_\_ \$ 35.00 1 year    **or** \_\_\_ \$ 60.00 for 2 years  
 Sponsoring Membership   \_\_\_ \$ 50.00 1 year    **or** \_\_\_ \$ 90.00 for 2 years  
 Contributing Membership \_\_\_ \$ 100.00 1 year   **or** \_\_\_ \$180.00 for 2 years  
 Student Membership      \_\_\_ \$ 10.00 1 year  
 Life Membership          \_\_\_ \$ 500.00  
 Please accept this donation \_\_\_ \$ \_\_\_\_\_

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Please make checks payable to  
*Planetary Studies Foundation*

Please mail the membership form  
along with a check to the  
address below.

Thank you for your support!

*Our mission is to promote the study of planetary science and astronomy with emphasis on meteorites; and to sponsor, encourage, and assist in the physical, astronomical, earth, environmental and cultural sciences so as to broaden our knowledge of all phases of the universe.*

## CONTACT US

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