

CROWN CRITER

AUGUST 1987

The Case for Mars III

University of Colorado, Boulder / July 18 thru 22, 1987

"In the past year we have seen our national space program violently deprived of much of its pride and sense of purpose. What it needs now is something that could give it spirit and resolve, serve as a pathfinder to the other nations, and be an inspiration to our young people."

- from MISSION TO MARS by Mark Stanley

MARK STANLEY, from Osceola, Indiana, a recent graduate of Penn High School and a summer employee of Crown International, just returned from a week with the stars - stars of the worldwide aerospace science community. They met for a conference at the University of Colorado in Boulder, July 18 through 22 to present "The Case for Mars III: Strategies for Exploration" sponsored by The Planetary Society, NASA ARC, NASA MSFC, NASA JSC, Jet Propulsion Laboratory, The American Astronautical Society, and Los Alamos National Laboratory.



Mark was one of those stars. He won \$750 and an all expense paid week by submitting a paper he originally wrote in April for his Advanced Composition Class at Penn High School. This Contest was sponsored by the Planetary Society Mars Institute. The object was to design an international mission to Mars.

The mission plan submitted by each contestant was supposed to consider the technologies of all space-faring nations including launch capabilities and satellite technology. Canada, the Soviet Union, the United States, Japan, the European Space Agency and more were to be included. Mark successfully did just that.

The Mars Institute Contest Award was presented by Christopher P. McKay, NASA ARC, at the close of the morning Plenary Session, Monday, July 20. In presenting the check to Mark, McKay emphasized that sixteen year old Mark Stanley had competed against teams of college students and scientists to win the award for the contest.



University of Colorado President, Dr. Gordon Gee, had opened the first session Monday. Other well known speakers were the Conference Chairman, Thomas O. Paine, who gave the Welcome and Dr. James E. Fletcher, Administrator, NASA, who gave the Keynote Address.

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Astronauts Michael Collins and Buzz Aldrin whose autographs appear above, then presented "Apollo 11 - Mars". Other reviews presented were the Soviet Mars Program by Bruce Murray of the California Institute of Technology and the Vice President of the Planetary Society, (the third autograph above), The Role of Science in Mars Exploration, Mission Strategy - a Historical Perspective, and Life Science Issues.

When reading the Conference Program it is obvious that Mark's paper was comprehensive in its coverage of the aspects of a mission to Mars. Over two hundred papers were presented discussing these aspects including everything from human factors involved to advanced propulsion and power sources.

During the workshops Monday, Tuesday and Wednesday, Mark met and talked to other students and scientists and was especially impressed by their dedication to science and the diversity of their backgrounds and interests. For example, Mark talked with Phil Hawes of Space Biospheres II, whose paper was titled "Towards a Permanent Settlement on Mars". Phil is an architect - a synergetic architect of biotechnic design and regional communities.

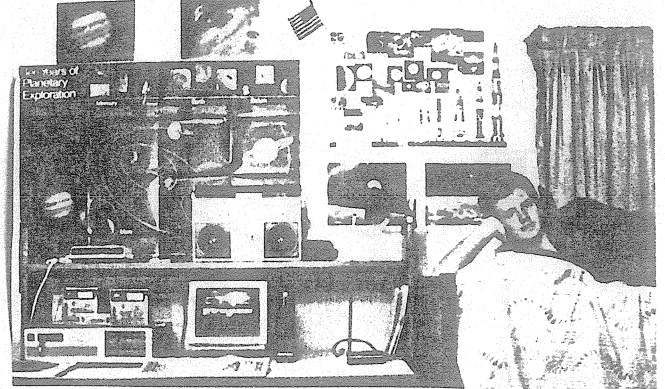
Mark's major interest was in the Advanced Propulsion Session conducted by Steve Howe of the Los Alamos National Lab and Dave Byers, NASA LeRC. Mark will be entering a new program at Purdue University in the fall for the study of physical science and aeronautical engineering and plans to do further research in propulsion when possible. High school out of the way, Mark says, "Now I can begin my education!"

His only disappointment at the conference was not getting to meet Carl Sagan whose TV series "Cosmos" was an inspiration to Mark. Sagan gave a lecture on Mars and participated in a panel discussion for a public program July 19 then left the conference. Mark was surprised, as were others, at Sagan's negative comments about NASA, his sponsor for the conference.

Mark's parents, Ellen and Gerald Stanley, and brother Randy, all joined Mark at the Conference. Randy and Mark explored the mountains around Boulder on mountain bikes, peddling over rocks and through streams with plenty of whoop-de-

doos and a few bumps and bruises to clear their brains in the mountain air.

While Randy used Mark's ticket to fly home, Mark and his parents drove, stopping to visit the seven story National Forecasting Center in Kansas City, Missouri on the way. Studying storms and astronomy are hobbies Gerald and Mark share. Mark uses the telescope his Dad built years ago.



Currently Mark is busy working on a short paper to submit as a requirement for receiving a college credit for attending the conference. It is interesting to note that his paper, as submitted to his high school English teacher, received only a "B" since it did not include a Preface as required.

The winning contest entry did have a Preface. In it Mark says, "Writing about the various space programs and the mission has had a strong effect on me. The lesson to be learned from this is a powerful one that deals with cooperation and trust."

In thirteen concise pages Mark explains existing technologies in various nations which can be used for a mission to Mars. The long-term reliability of electronic components used in the United States Pioneer, Voyager and Apollo space programs, the Soviet's twelve year experience studying the effects of space flight on the astronauts and the European Space Agency's participation in planning an international space station are examples.

He details the spacecraft, the rockets, the modules housing scientific, medical and exercise facilities, and the manpower to handle them. In-space activities, the details of landing, an automated meteorological and seismic station to study Mars, and the methods for returning to Earth are discussed.

continued...

In researching his paper Mark spent hours at the Notre Dame library with "a pile of books". He is an avid reader of SKY AND TELESCOPE and ASTRONOMY magazines as well as the Planetary Society publication in which he first read about the Mars contest.

Mark thanks his parents Ellen and Gerald Stanley for their encouragement and help in checking punctuation, spelling and capitalization but claims any errors in content as his own.

In his conclusion to this hypothetical mission to Mars, Mark states, "As the participating nations prepare for the next mission, they will be drawn towards the awareness that in exploring the outer spaces, they have explored the inner spaces of friendship and international cooperation. Both having been little explored by man, bear great promise for all."

The CROWN CRIER is the monthly newsletter of CROWN INTERNATIONAL, Inc., 1718 W. Mishawaka Road, Elkhart, IN.

**THE NEXT ISSUE WILL BE SEPT. 1987
DEADLINE FOR CONTRIBUTIONS, AUG. 31.**

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NOTE: We are swamped! Our stack of New Employee Profiles is growing but due to the quantity and the lack of time to photograph everyone for the photo board and the CRIER, we have not been able to publish them. We will try to do this as soon as possible. In the meantime, introduce yourselves to new employees and use those ID badges to help remember names and faces!

Harold S. Kushner, *rabbi and author*: "The Talmud tells us that a person should do three things in the course of his life-time: have a child, plant a tree and write a book. They are all ways of seeing to it that our creative impulses will outlast us and still be around when we no longer are."

help! vital statistics reporter needed!

WANTED FOR THE CRIER!

(1) A reporter to get "Vital Statistics" for each issue. "Vital Statistics" is a questionnaire about a person which gives an inside view of not-so-vital information about that person, his/her likes, dislikes, etc.
(2) A revised Questionnaire. Suggestions are welcome. CALL LIBBY, EXT. 390!

Here is what we are now using:

NAME: _____
BIRTHDAY: _____
BIRTHPLACE: _____
DEPARTMENT/POSITION: _____
CURRENT HOME: _____
MARITAL STATUS: _____
CHILDREN: _____
PROJECTS WORKING ON: _____

FIRST JOB: _____
FAVORITE BOOK: _____
FAVORITE FOOD: _____
FAVORITE PERFORMER: _____
FAVORITE TELEVISION SHOW: _____
HOBBIES AND INTERESTS: _____
FAVORITE CHILDHOOD MEMORY: _____
PERSONAL HEROES: _____
EVERY NEW YEAR'S I RESOLVE: _____
NOBODY KNOWS I: _____
MY WEAKNESS IS: _____
THE BEST JOB IN THE WORLD: _____
IF I WERE GOING TO THE MOON, I'D TAKE: _____
THE ONE THING I CAN'T STAND IN PEOPLE: _____
THE WORST TIME OF MY LIFE: _____
THE BEST TIME OF MY LIFE: _____
IF I'VE LEARNED ANYTHING IN LIFE, IT'S: _____

personnel paraphernalia

CONGRATULATIONS TO SHELDA JENSEN CPS, who recently achieved the Certified Professional Secretaries rating. Shelda began taking review study classes in September 1986 to prepare for the six-part examination given the first weekend in May 1987. She passed examinations in Business Law, Accounting, Behavioral Science in Business, Office Administration and Communication, Office Technology, and Economics and Management. Shelda was recognized for her achievement at the August meeting of Professional Secretaries International.

HAPPY BIRTHDAY 70 TO LOIS ROBERTS!

She was surrounded by greetings and good wishes, balloons, flowers and friendship and treated to a breakfast in honor of her day, August 14.



CONGRATULATIONS TO BEV LAWS AND PEGGY SAYLOR who are the new Production Planners in Steve Peer's Department.

GLORIA BALOY and the Rochester Haymakers and the Plymouth Round Town Ramblers are performing for the athletes at the Pan American Games in Indianapolis, Saturday, August 22, 2 - 4 PM.

The Rochester Haymakers are a "Living Theater" group which preserves American History through song and dance. Twenty-two members will be traveling to Indianapolis including the band, the Plymouth Round Town Ramblers. Dressed in prairie costumes they will perform folk dances and early American folk music.

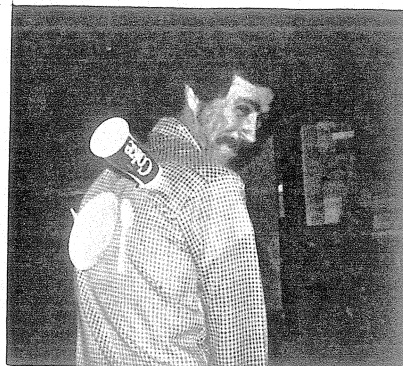
In addition to dancing Gloria will play her Irish Drum, the Bodhron, and the bones, used by the minstrels for years.

The Rochester Haymakers were the first performers at Olympia Town for the Special Olympics in South Bend. Earlier this summer they played for the Firefly Festival in South Bend on stage with the McClain Family.

Gloria's Bodhron was made in Ireland by Charlie Burn, well-known for this craft. Since her order, made through Kevin O'Dwyer in Chicago, took six months, she bought an Indian tom-tom kit to make a drum to learn on. She was pleasantly surprised to find that she was able to pick up the rhythms quickly.

She was invited to join a group of students at Notre Dame who enjoyed Irish music and dancing. Although this group broke up when members graduated, Gloria's participation led to other Irish get-togethers where young and old sing, dance, and play instruments or just enjoy observing others. It has been a lot of fun and she has found she has a "knack" for the folk dancing as well as playing the drum. She has also played the flute and will pick this up again as she has the opportunity to play for more "old time fiddlers conventions", historical "re-enactments" and similar occasions.

VERN PAVASCO's creativity turns up in unique places, his back for example. He recently selected a paper and plastic ware place setting to accent his red and white check shirt.



BRAHMA NAND and his wife returned July 5 from the wedding of his daughter in Hawaii. The guest list did not include the 400 family members and friends they had invited for a Fiji wedding, thanks to the political coup in Fiji June 18. However, the immediate family was present and Irene and Shailendra were happily married. Son Vishwa's baby daughter posed for many of Brahma's pictures.

continued...

From Hawaii Brahma and Sarojani travelled on to Melbourne, Australia and crossed over the Sydney Harbour Bridge in Australia. This was something he had wanted to do since he was twelve years old.

They travelled on to New Zealand July 1, arriving in Auckland where the Auckland Harbour bridge is located. Seeing and crossing over this bridge was another dream fulfilled from childhood and one he accomplished when he was there in 1984.

CONGRATULATIONS TO THERESA FORDYCE on her engagement to Shane Rorie.

ANNOUNCEMENT: THE CROWN CHRISTMAS PARTY WILL BE MONDAY, DECEMBER 7, 1987

LOST AND FOUND

IEMKE ROOS IMPORT BV Kuiperbergweg 20, 1101 AG Amsterdam Z.O., Tel.

THANK YOU

8/3/87

Reply 1

MESSAGE

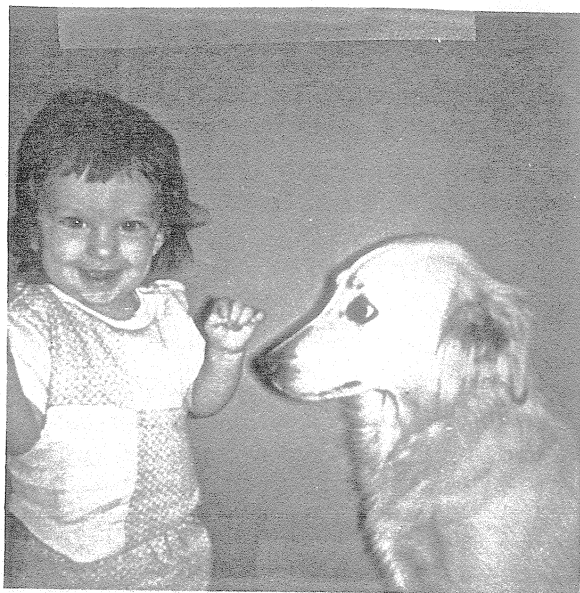
DEAR IEMKE,

THANKS FOR RETURNING THE I.D. BADGE OF AMCRON EMPLOYEE "MARK HARRIS". SHOULD YOU EVER HAPPEN TO OPEN A FUTURE SHIPMENT AND FIND MARK IN THERE HIMSELF,..... JUST KEEP HIM !..... JUST KIDDIN'.

JAMES PUTZ/TRAFFIC

A vacation is what you take if you can't take what you've been taking.

baby face



HISTORY Trivia

- 1.) Who was the only U.S. President whose last name had more than three syllables?
- 2.) Abraham Lincoln in 1864 and Franklin D. Roosevelt in 1940 both used the same campaign slogan. Do you know what it was?
- 3.) Who was the first president of the Republic of Texas?
- 4.) Who was the founder of the colony that was to become Rhode Island?
- 5.) Washington's army and the French fleet bottled up the British at Yorktown, Va. effectively ending the American revolution. Who was the British general who surrendered to Washington?
- 6.) Three men who were not U.S. Presidents have their pictures on U.S. paper currency. Can you name them?
- 7.) Admiral Dewey won the battle of Manila Bay. In what war did that battle occur?
- 8.) Jefferson Davis was president of The Confederacy. Immediately prior to that, he held a position in the U.S. Government. What was it?
- 9.) The Mexican War was fought during the term of President Polk. What general emerged from that war to succeed Polk as the next president?

Answers:

- 1) Eisenhower
- 2) "Don't change horses in mid stream"
- 3) Sam Houston
- 4) Roger Williams
- 5) Cornwallis
- 6) Benjamin Franklin (\$100), Alexander Hamilton (\$10), Salmon P. Chase (\$10,000)
- 7) Spanish-American War
- 8) Secretary of War
- 9) Zachary Taylor

sports shorts

TWO SHORT YEARS

It was the spring of the year 1985 when Crown ladies softball came to life. That was an enthusiastic bunch, those early few, but team sports are tough when everything is brand new.

There wasn't much to cheer about for us few fans that came, in fact the big thing back then was to win just one game.

Things weren't so great that first formative year, but an important quality developed...to persevere.

1986 promised not so dim with the high-powered new coach..."Calumet Kim".

The coach was realistic, didn't expect perfection, but was creating a team effort, a positive direction.

It was still kind of frustrating, the big games were close; a team was emerging though, it was obvious to most.

1986 may have been feast or famine, a split season record generated next year's momentum.

And one thing I noticed was the fans that were few were now filling the bleachers heh, heh, heh,...WE BE JAMMIN' TOO!

STEAMROLLER appropriately describes this year's effort, because it obviously shows on the face of each opponenet.

From what was such a struggle just two short years ago, now looks like a polished act...capable of sixteen and "O".

There's WENDY with her mitt stretched high. She's good at that too! It's almost like Carl Yastremski...DE-JA-VU....

KIM, ROXANNE, ANGIE with the power swings, back up all the fielders. It's a regular thing.

Beeee-Baaaad LISA is in there thick and thin, but what do you expect? She can't help it her last name is WYNN.

There's MARILEE at the plate and MELISSA on the mound. Well! There's another 3 up and 3 down.

And about the time the other team quits having fits, then ANITA walks up and switch hits!

Ya' know, it's not that any individual is such a sensation, but the sum of PEGGY's, MARY's and TAMMIE's individual determination.

It's just two short years and look at what you've got, the perseverance, the confidence, a league championship shot.

But this fan believes that when this season is completed, not only are you the champions but the mighty STEAMROLLER will be

UNDEFEATED !!!

a dedicated fan.



BABY FACE: ROBIN KUEPPERS