

# Re: Barack Obama Publishes His Space Policy

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- *From:* Fred J. McCall <[fmccall@xxxxxxxxxxxxx](mailto:fmccall@xxxxxxxxxxxxx)>
  - *Date:* Mon, 14 Jan 2008 02:02:06 -0700
- 

jacob navia <[jacob@xxxxxxxxxxxxx](mailto:jacob@xxxxxxxxxxxxx)> wrote:

:Fred J. McCall wrote:

:>

:> :

:> :Even if you find a good cave (you have to FIND it first using

:> :robots), ...

:> :

:>

:> Because obviously all of mankind is struck blind until robots can go

:> and do that job.

:>

:

:Humans can't do that job because they can't survive in the moon for

:weeks or months until the good cave is found!

:

What makes you think it takes "weeks or months"? You never heard of 'shade'?

:

:Solar radiation and space radiation in the moon is very strong, enough

:to provoke cancers and blindness in astronauts if they live unprotected

:for weeks in a high radiation environment.

:

Cite?

Again, you never heard of 'shade'?

:

:And this facts do not go away. To \*find\* those protected environments

:you need to send robots because they do not need any life support and

:they are radiation hardened. And if they "die" nobody cares a lot!

:

To \*find\* those protected environments is pretty much dirt stupid.

Pick a convenient slope and blow it down on your habitat (for example).

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:> :  
:> :... you have to construct a whole environment for humans  
:> :in that place:  
:> :  
:> :  
:> And this is not hard to do if you actually jettison your ideology and  
:> engage your brain.  
:> :  
:> :  
:> :o air-tight so that humans can breathe.  
:> :  
:> :  
:> Kevlar inflatable.  
:> :  
:You can't inflate them anywhere!  
:

Of course you can.

:  
:The slightest cosmic debris and all  
:humans are dead.  
:

Nope. Please stop making up silly things.

:  
:Please just THINK a bit instead of throwing slogans  
:like that.  
:

Please grow a clue and stop being an insulting ignorant shit.

:  
:You have to build an underground habitat that is not affected  
:by space debris and offers radiation shelter. Kevlar inflatable can be  
:used \*inside\* those protected holes/caves but not outside.  
:

Which is what I was referring to. But you're too busy not thinking to understand that.

:  
:There is the problem of the temperature delta from day (150–200 degrees  
:in sun bathed places to –150 at night. (Centigrade). Your Kevlar would  
:explode if left in the sun for half lunar day (around 14 earth days)  
:

You assume there's no pressure regulation? You assume there's no

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thermal protection? They've never heard of that advanced concept called 'shade' where you are?

:  
:> :  
:> :o with enough water and food so that humans can live for a  
:> : while  
:> :  
:> :  
:> :  
:> Robots don't help with this. You're going to have to bring it with  
:> you and recycle a lot.  
:> :  
:  
:It is obviously not only a matter of just bringing it in. You have to  
:have a place underground to \*store\* those supplies that is thermally  
:stable enough to hold water in liquid form for several months. Again,  
:you can't do this in the surface because of the previously mentioned  
:delta between day and night. To avoid freezing or vaporizing of water  
:you need places where day/night temperatures stay within 0–100 degrees  
:centigrade.  
:  
:

And this is not hard to do at all. Nor is it even required. Let it freeze and thaw it as needed. Cover it with reflective foil. Use a pressure vessel. Lots of answers. Your desire not to find any is obvious.

:> :  
:> :o With enough "amenities" so that they do not go crazy:  
:> : showers, waste disposal, communications, fuel, solar  
:> : panels, and a big ETC!  
:> :  
:> :  
:> : And the robots don't help with all that, either. Again, you have to  
:> : bring it with you initially.  
:> :  
:  
:Yes, but then you have to install them, connect them, ensure they are  
:working, test them for a while BEFORE humans arrive whose life depends  
:on that equipment being functional.  
:  
:

No robots required for that.

Just how do humans settle ANYWHERE without your robots? Why, it must be IMPOSSIBLE!!!

:> :  
:> :All that must be there BEFORE the humans arrive. Or you  
:> :are seriously considering sending astronauts with shovels  
:> :to the moon?

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:> :  
:>  
:> And once again your lack of intellectual integrity rears its ugly  
:> head.  
:>  
:  
:Obviously after you have found a good cave or you have blasted one with  
:explosives you will need to arrange the cave, inflate the Kevlar, bring  
:in the supplies, connect everything, test it, etc. And humans can't do  
:it without another habitat that keeps them alive in the moon, so you  
:need robots anyway.  
:

Hogwash.

:  
:> :  
:> :How they could survive when constructing  
:> :the moon base if there is no moon base yet?  
:> :  
:> :It is obvious that sending construction workers to the  
:> :moon in temporary habitats carried at great expense from  
:> :earth is so silly nobody is seriously considering that.  
:> :  
:>  
:> That's right, nobody is, so why are you raising it as if someone is?  
:>  
:  
:You.  
:

I see. You're just an intellectually bankrupt liar with no  
intellectual integrity.

:> :  
:> :NASA, by the way, is not even considering a moon base  
:> :at all.  
:> :  
:>  
:> Really? From a lack of intellectual integrity to outright lying in  
:> one swell 'foop'.  
:>  
:> [http://www.world-science.net/othernews/061204\\_lunar-base.htm](http://www.world-science.net/othernews/061204_lunar-base.htm)  
:>  
:  
:That document speaks about... 2024!!  
:

Well, nobody is talking about doing this next Tuesday, you know.

Where are all your robots, their funding, their development schedules,

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proof of concept....

:  
:> :  
:> :>  
:> :> :  
:> :> :Radio delay to the moon is just 1 second, short enough to make  
:> :> :very easy driving a robot there.  
:> :> :  
:> :>  
:> :> Not so much, no. Try walking across the room and examining objects  
:> :> doing a 'step-look' sequence of a second for each one. See how long  
:> :> just exploring the room takes.  
:> :>  
:> :  
:> :You get used to it in 1-2 hours practice.  
:> :  
:>  
:> It's not a matter of 'getting used to it'. It's a matter of 'you have  
:> to move really slow because shit happens in much less than a second  
:> and you can miss a lot otherwise'.  
:>  
:  
:Yeah, I would not recommend robot races. But a speed of 6-10 Km:hour is  
:enough to get everything done.  
:

And that's faster than we could do it with people right there in the driver's seat.

That is \*WAY\* too fast to do it with robots.

:  
:> :  
:> :You just want to send people there, ...  
:> :  
:>  
:> Quite right, I do. If that's not the plan, why learn about the place?  
:>  
:> :  
:> :... and there is a lot of profit  
:> :to be made (not by you of course) in doing that, that is  
:> :why sending humans is proposed by certain people.  
:> :  
:>  
:> And your profit motive is what, precisely?  
:>  
:> Sauce for the goose and all that, after all...  
:>  
:> :  
:> :Personally, I do not give a dam about some guys jumping around

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> :in the moon. I am interested in exploration and science.  
> :  
> :  
> :Well, no, you aren't. You're against people going (exploration).  
> :  
> :  
> :I know, that is very old fashioned and not so "gee-whiz".  
> :But, as said, I do not care about people getting disappointed.  
> :  
> :  
> :You know, they used to say "no bucks, no Buck Rogers". Each new  
> :generation of idiots like you needs to learn that the converse also  
> :applies – "No Buck Rogers, no bucks."  
> :  
> :I hope you're very, very wealthy and can fund what you want on your  
> :own, because if people aren't going you're going to find getting tax  
> :money to do it is pretty much a non-starter.  
> :  
> :  
> :Europe is pursuing robotic exploration without any investments in  
> :human exploration besides the ISS.  
> :  
> :ESA has now robots in  
> :o Mars with Mars express  
> :o Venus with Venus express  
> :o Saturn with Cassini/Huygens (with NASA)  
> :o Mercury mission planned for 2013  
> :o Moon missions with several automatic probes  
> :  
> :This demonstrates that you can build a space program based exclusively  
> :on robots.  
> :  
> :

Sure you can, BUT WHY WOULD YOU WANT TO?

> :  
> :  
> :Learn some history...  
> :  
> :  
> :  
> :There is no history here.  
> :  
> :

Of course there is. Go look it up. EVERY time the manned space budget is cut the unmanned space budget takes bigger cuts.

—  
"Ignorance is preferable to error, and he is less remote from the truth who believes nothing than he who believes what is wrong."  
— Thomas Jefferson

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