

Preparing for life on Mars

Session 1

MARK DUEWIGER

NOVEMBER 07, 2019

DISCUSSION NOTES TAKEN BY LISA TRIZANO

- ✓ **Within 20 years, humans will live on Mars.**
- ✓ **What Time is it on Mars**

Session 1

-
- "Growing" Houses out of Fungi**
 - Venus too Hot, Mars too Cold, Earth Just Right**

Session 2

Walmart



Preparing for Life on Mars – Session 1

Within 20 Years, Humans will Live on Mars.

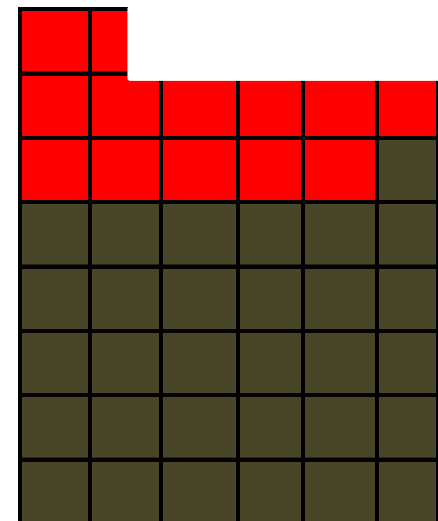
It sounds like science fiction, but journalist Stephen Petranek considers it fact: within 20 years, humans will live on Mars. In this provocative talk, Petranek makes the case that humans will become a spacefaring species and describes in fascinating detail how we'll make Mars our next home.

"Humans will survive no matter what happens on Earth," Petranek says. "We will never be the last of our kind."

Notes

- ✓ Living on Mars will not be easy
- ✓ NASA taking on Living on Mars issues
 - Commercial company's are building the rockets
- ✓ Terraforming – (Star Trek)
 - ✓ High risk of things going wrong
- ✓ This will not be easy

Missions to Mars (44 -
successful landings (13) Red
Crash landing or missed landing (31) Brown



Preparing for Life on Mars

Session 1

Within 20 Years, Humans will Live on Mars

Discussion /Meeting Notes

- What are pros living on Mars as opposed to moon or Venus? Closest most habitable.
- Mars has such a thin atmosphere – discussed how to improve atmosphere
- Why are we going. Exploring in our DNA. Something may destroy Earth , asteroids
- How will this benefit all of us. NASA still involved. Help finance, new science
- Who owns Mars?
- Can we economically mine Mars?
- How do we know Mars soil is productive or useful?

Preparing for Life on Mars – Session 1

What Time is it on Mars

What Time is it on Mars - Nagin Cox is a first generation Martian. As a spacecraft engineer at NASA's Jet Propulsion Laboratory, Cox works on the team that manages rovers on Mars. But working on another Planet (whose day is 40 minutes longer than earth's) has particular, often comical challenges.

https://www.ted.com/talks/nagin_cox_what_time_is_it_on_mars

Notes

You thought it was complicated on earth

1. 6 time zones in Russia all on Moscow time
2. India time zones on ½ hour
3. AZ no daylight savings

What if you are dealing with people on two planets

With days that are quite different than earth

24 hr day
Year

Mercury	58.6 days	87.97 days
Venus	243 days	224.7 days
Earth	0.99 days	365.26 days
Mars	1.03 days	1.88 years

What about calendars?

Star Date 3219.7

Preparing for Life on Mars

Session 1

What Time is it on Mars

Discussion/Meeting Notes

- Who would you like to travel to Mars with? It takes months to get there.
- Calendar is man made.

Additional Information

- Ted Books

<https://www.ted.com/read/ted-books/ted-books-library/how-we-ll-live-on-mars>

- Play Lists

https://www.ted.com/playlists/live_out_your_sci_fi_dreams

Note: copy link in browser if link is not available