

# Nukes

# In ND



**Visit nuclear launch site in North Dakota, USA  
Not a joke.**

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## MAF - Missile Alert Facility

- Oscar-Zero Missile Alert Facility
- November-33 Launch Facility

Planning for a “nice” (?) family weekend trip?  
Here you go.

### Where?

North Dakota

Oscar-Zero: four miles north of Cooperstown on Highway 45  
November-33: two miles east of Cooperstown on Highway 200

90 miles  
northwest of  
Fargo, ND

5000 visitors/year

### Opening hours?

Memorial Day - Labor Day (end of May – 1<sup>st</sup> week September ) 10am - 6pm, Daily

Labor Day - Oct. 31 & April 1- Memorial Day

Mon. and Thurs. - Sat., 10am - 6pm; Sunday 1pm - 5pm

Nov.1 - March 31 By Appointment Only

Entrance fee \$10 (adults)

This is real, not a joke.

### When operated?

This facility from 1965 to 1997

### Today?

nuclear missiles are still in the ground in North Dakota, Montana, Wyoming  
3 fields with 150 missiles each

# What is on the menu?

Guided tours by museum staff at Oscar Zero

## Oscar-Zero

- topside facilities
- underground launch control center
- concrete blast door



## November-33

Not much to see, but many info posters from state historical society

- topside of a launch facility
- launch closure door (“lit on the silo”)
- ventilation systems



Oscar, November?

They used the military alphabet to number the sites.

Apparently no other meaning to the names.

[https://en.wikipedia.org/wiki/NATO\\_phonetic\\_alphabet](https://en.wikipedia.org/wiki/NATO_phonetic_alphabet)

How long does it take to destroy Earth?

Flight path over North Pole, 30 minutes

What are minutemen?

<https://en.wikipedia.org/wiki/Minutemen>

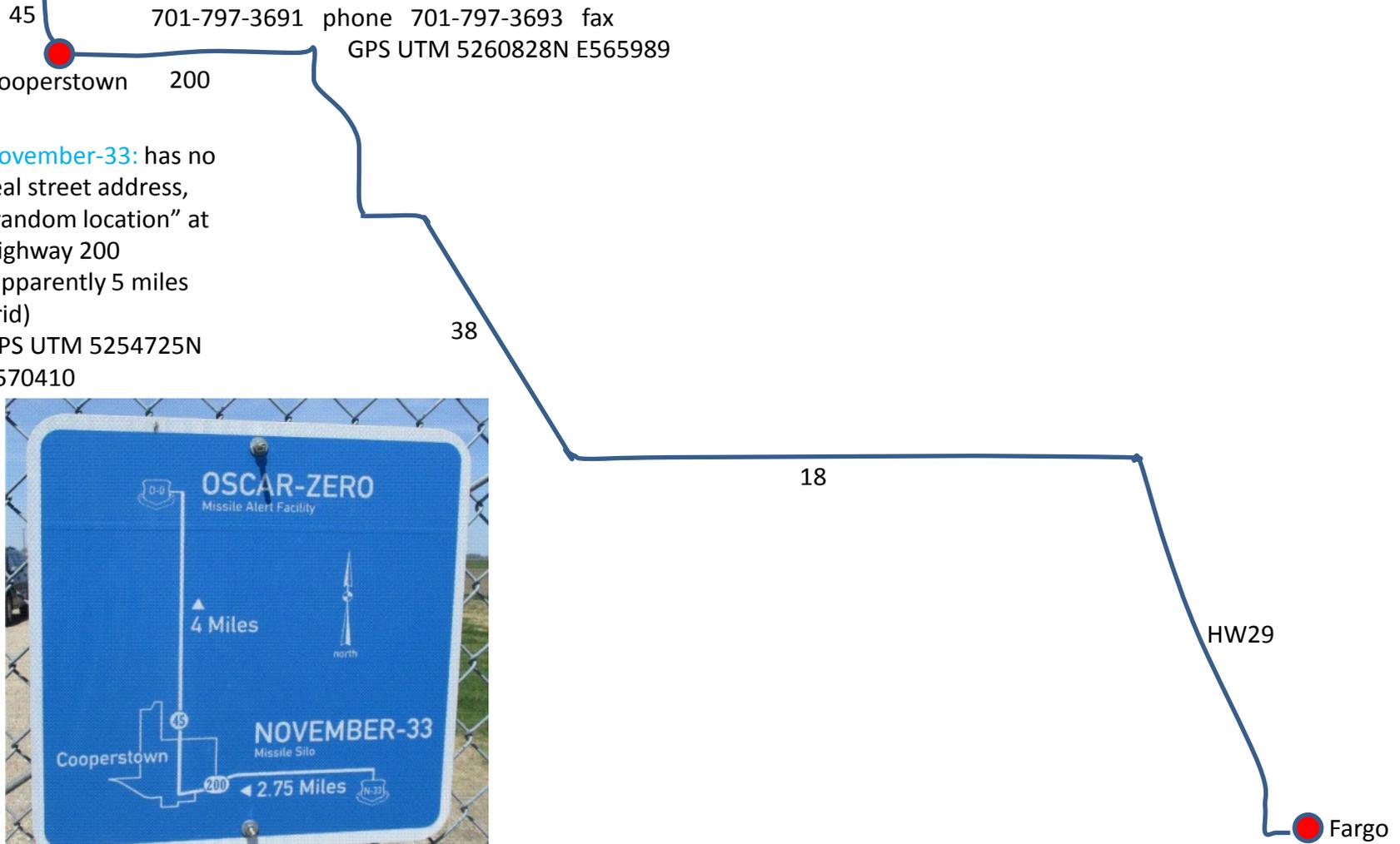
# Where? - 1h40min drive from Fargo (ND)

90 miles northwest of Fargo, ND

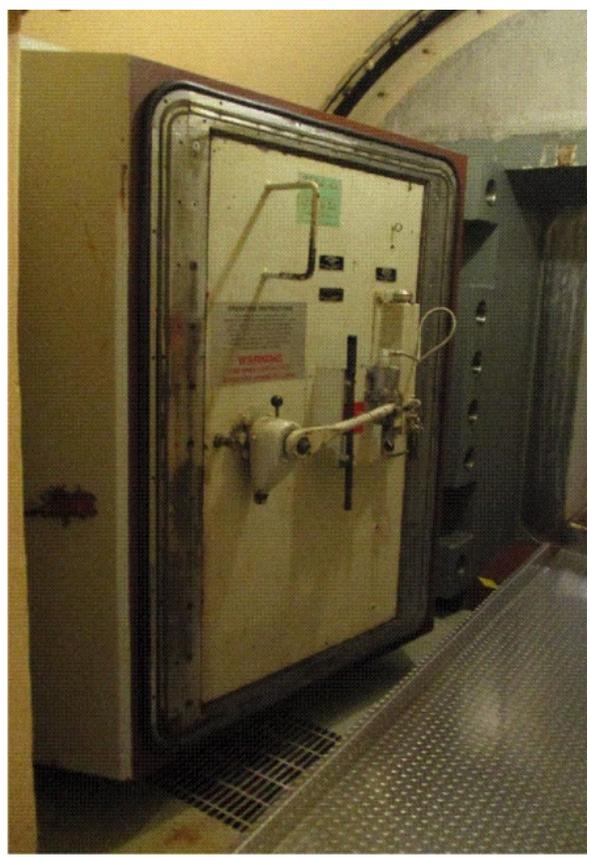


**Oscar-Zero:** Ronald Reagan Minuteman Missile State Historic Site  
555 113-1/2 Ave NE Hwy 45  
PO Box 6  
Cooperstown, ND 58425-0006  
701-797-3691 phone 701-797-3693 fax  
GPS UTM 5260828N E565989

**November-33:** has no real street address, "random location" at Highway 200 (apparently 5 miles grid)  
GPS UTM 5254725N E570410



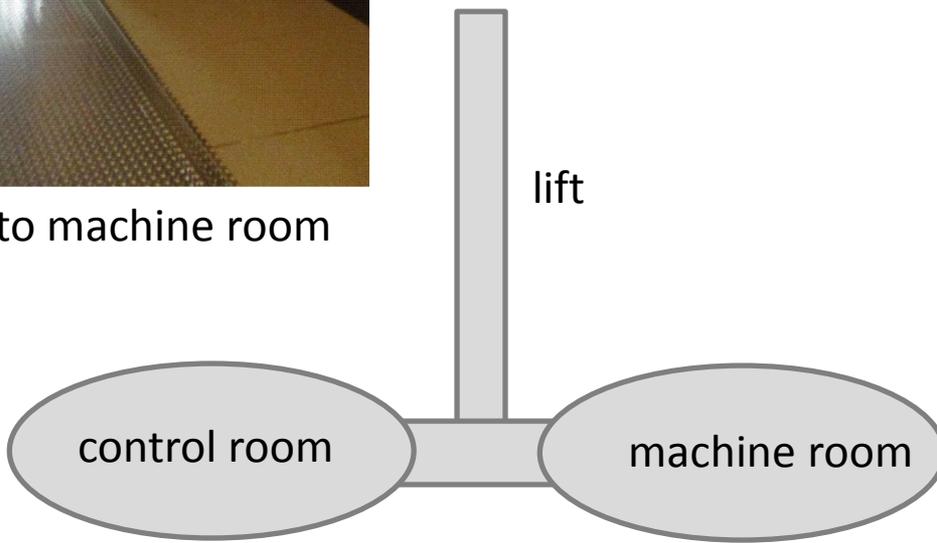
Oscar-Zero – come in



entrance to control room



entrance to machine room



Bunker apparently designed to withstand a close proximity nuclear impact but no direct hit.

# Oscar-Zero – launch/control room



control station 1

seen in some Hollywood movies



the magic box

- code book
- two launch keys



control station 2

## Oscar-Zero – machine room



shock absorber,  
preventing collapse of  
building



generators  
cooling  
ventilation

ventilation port



open/close the lid



lid on silo

rocket silo

Not much to see except half dozen of info posters. Bring a jacket, it is windy as hell.

## internet resources

<http://www.history.nd.gov/historicsites/minutemanmissile/index.html>

[https://en.wikipedia.org/wiki/Oscar-Zero\\_Missile\\_Alert\\_Facility](https://en.wikipedia.org/wiki/Oscar-Zero_Missile_Alert_Facility)

<http://www.oscarzero.com/>

<http://www.cbsnews.com/news/inside-oscar-zero-a-nuclear-missile-bunker-frozen-in-time/>

<https://en.wikipedia.org/wiki/Minutemen>

[https://en.wikipedia.org/wiki/LGM-30\\_Minuteman](https://en.wikipedia.org/wiki/LGM-30_Minuteman)

[www.cooperstownnd.com](http://www.cooperstownnd.com)

## nuclear missiles today

<http://www.theonion.com/article/the-draft-ep-2-31>

I did find different numbers at different sources

1,710 warheads at two military sites

500 Minuteman III ICBMs and 50 Peacekeeper missiles

### Museums info

nuclear missiles are still in the ground in North Dakota, Montana, Wyoming

3 fields with 150 missiles each

<http://www.grandforksherald.com/content/north-dakota-missile-sites-living-nuclear-world>

<http://www.bing.com/images/search?q=nuclear+missiles+in+the+ground+in+north+dakota&qpvtn=nuclear+missiles+in+the+ground+in+North+Dakota&qpvtn=nuclear+missiles+in+the+ground+in+North+Dakota&qpvtn=nuclear+missiles+in+the+ground+in+North+Dakota&FORM=IGRE>

images

A similar museums site also is in South Dakota

Where?

Minuteman Missile National Historic Site in SD  
70 miles east of Rapid City, SD  
I-90 exit 131

[www.nps.gov/mimi](http://www.nps.gov/mimi)

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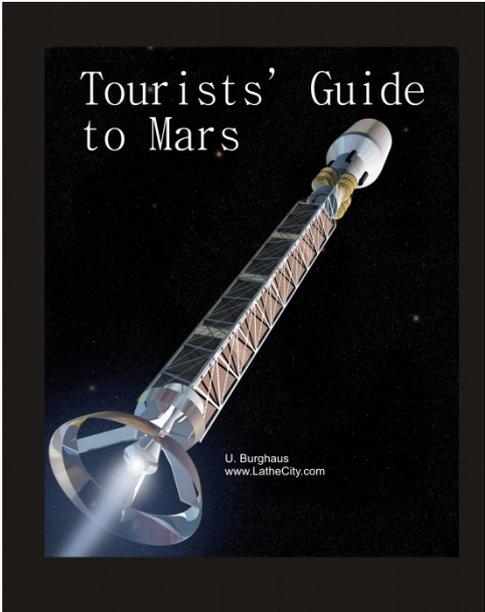
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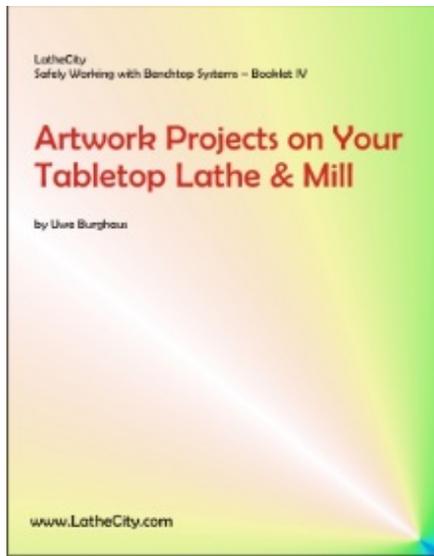
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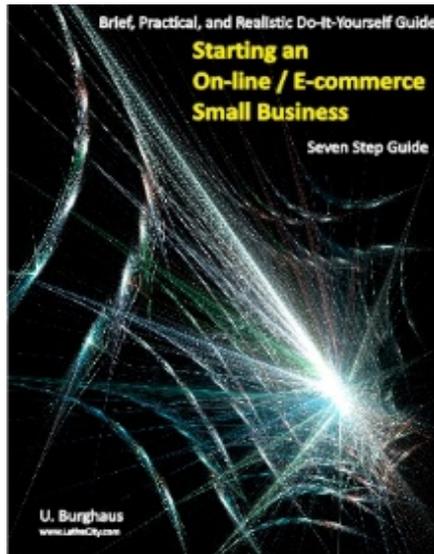
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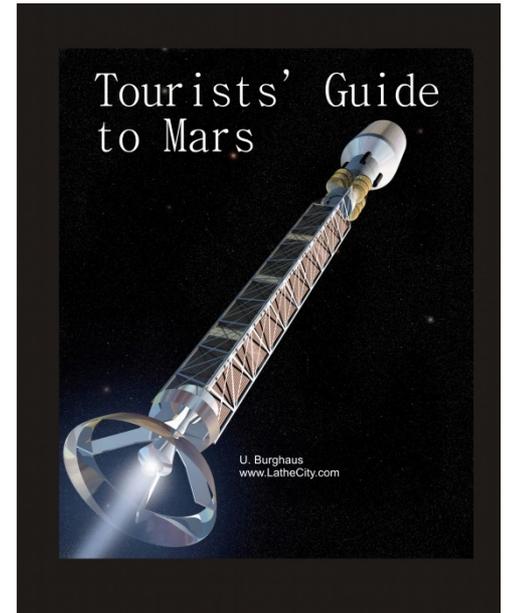
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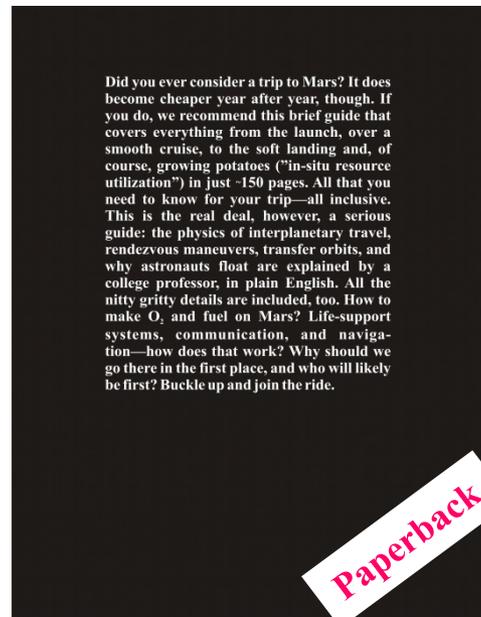
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**Synopsis.** Did you ever consider a trip to Mars? It does become cheaper year after year, though.

If you do, we recommend this brief guide that covers everything from the launch, over a smooth cruise, to the soft landing and, of course, growing potatoes (in-situ resource utilization) in just 150 pages. All that you need to know for your trip—all inclusive.

This is the real deal, a serious guide, however: the physics of interplanetary travel, rendezvous maneuvers, transfer orbits, and why astronauts float are explained by a college professor, in plain English. All the nitty gritty details are included, too. How to make O<sub>2</sub> and fuel on Mars? Life-support systems, communication, and navigation—how does that work? Why should we go there in the first place, and who will likely be first? Buckle up and join the ride.

[ eBay ] [ Amazon ]

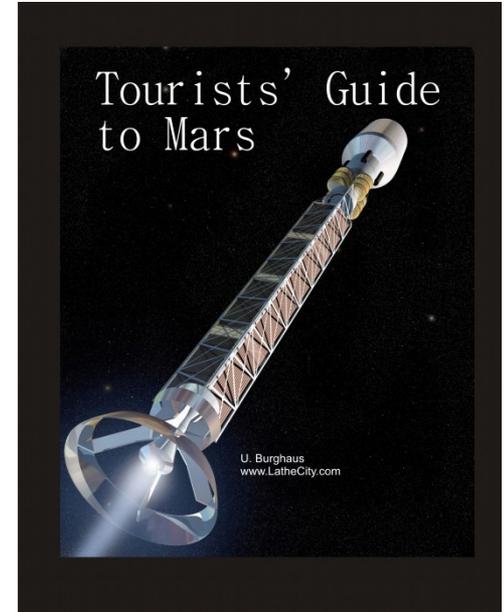


### Tourists' Guide to Mars

ISBN-10: 0-9911530-7-3

ISBN-13: 978-0-9911530-7-7

Paperback, 150 pages  
figures 44, tables 5  
size 6" x 9" x 0.25"



\$14.99, 150 pages

**The author** is a physicist / physical chemist and since 2003 a faculty member at a US college. Born in West-Berlin, he got most of his education in Physics in Germany. After many years of postdoc positions (Italy, USA, Italy, Germany) and a habilitation in Germany (German tenure), he found a faculty position in the US where he obtained tenure in 2009. Although this book project has nothing to do with the university he is employed, more one could find here [www.uweburghaus.us](http://www.uweburghaus.us) He has written several books, (most of these about practical engineering topics), and sells most of those books in the meanwhile by myself, i.e., he owns a part time small business. Details are here: [www.LatheCity.com](http://www.LatheCity.com). LatheCity is actually specialized in manufacturing tools for benchtop metal work systems.

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