

<http://www.SkokieValleyAstronomers.org>

The next meeting will be on **Friday, August 11, 2017**, at **8PM**, at the Welcome Center of Ryerson Woods. Club member **Gretchen Patti** says that it's hard to study something that's very nearly nothing! Come hear about the latest attempts to capture and measure that almost-nothing particle: the Neutrino: **"An Update on Neutrino Research"**.

After the talk, we will move outside for viewing if weather conditions permit. Remember to dress for the weather, and bring your binoculars and telescopes.

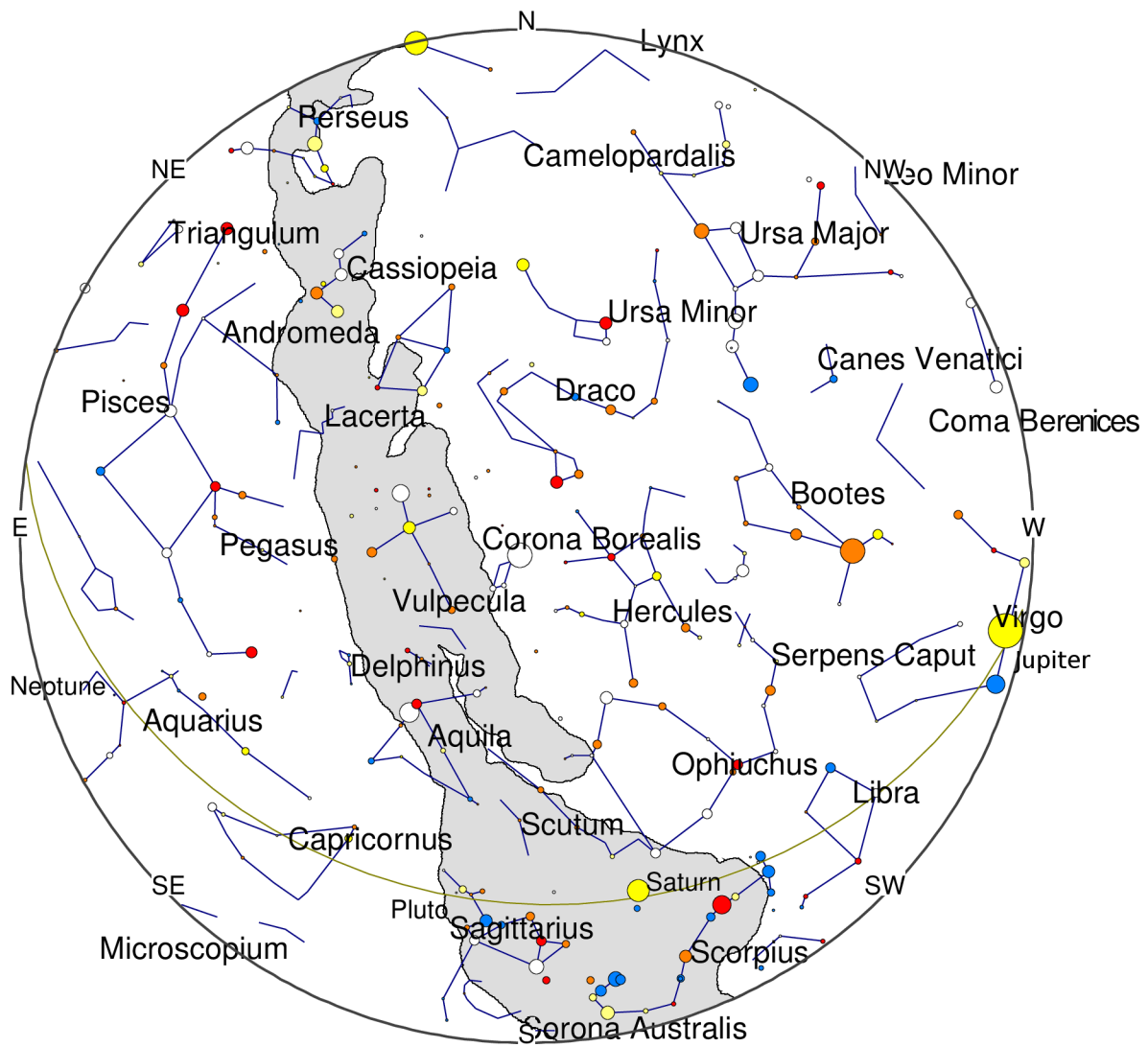
Skokie Valley Astronomer club dues are \$20 per year, which runs from April to March. Please check your mailing label. Does it say **"member through March 2018"**? If not, please consider becoming a member.

2017 Date	Talk	Speaker	Moon Elongation and Phase
September 8	Planet Earth As Art: The View From Space	Jim Plaxco	144°W – Full Moon

Chicago Society for Space Studies President and Digital Artist Jim Plaxco will show satellite images of the Earth, and discuss how these images are created and processed to reveal the hidden beauty of our planet.

October 13 (TBA)	Native American Star Stories	Penni Isaacson	69°W – Last Quarter
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**RYERSON WOODS / WELCOME CENTER
21950 RIVERWOODS RD, DEERFIELD, IL 60015
42° 10' 55" N, 87° 54' 56" W**



Universal Time (UTC): Saturday 2017-08-12 03:00:00
 UTC Adjustment (Time - UTC): -05:00

 Date, Time: Friday 2017-08-11 22:00:00
 Longitude: West 87.91556° = 87° 54' 56"
 Latitude: North 42.18194° = 42° 10' 55"
 Julian Day: 2457977.62500000 (+90.3s = Dynamical time)
 Local Sidereal Time: 18h 32.9m
 Moon Phase: Last Quarter -37°

Object	-----J2000.0-----		----Horizon---		---Ecliptical--		Anglr	
	RA	Dec	Azimuth	Alt	Elong	Constel	Size	Illum
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Sun	09h 27.1m	+15° 00'	135° NW	-19°		Leo	31.6'	
Mercury	10h 45.5m	+03° 47'	111° WNW	-16°	22° E	Leo	9.7"	23%
Venus	06h 56.7m	+21° 48'	174° N	-25°	36° W	Gem	13.8"	78%
Mars	09h 08.4m	+17° 37'	140° NW	-19°	5° W	Cnc	3.5"	100%
Jupiter	13h 09.6m	-06° 08'	79° W	+3°	59° E	Vir	33.4"	
Saturn	17h 21.5m	-21° 55'	18° SSW	+24°	122° E	Sco-Oph	17.4"	
Uranus	01h 45.8m	+10° 18'	250° ENE	-5°	111° W	Psc	3.6"	
Neptune	22h 59.7m	-07° 26'	291° ESE	+12°	156° W	Aqr	2.3"	
Pluto	19h 13.9m	-21° 38'	349° S	+25°	148° E	Sgr	0.1"	
Moon	00h 52.4m	+00° 24'	266° E	-2°	127° W	Psc	31.4'	80%