

<http://www.SkokieValleyAstronomers.org>

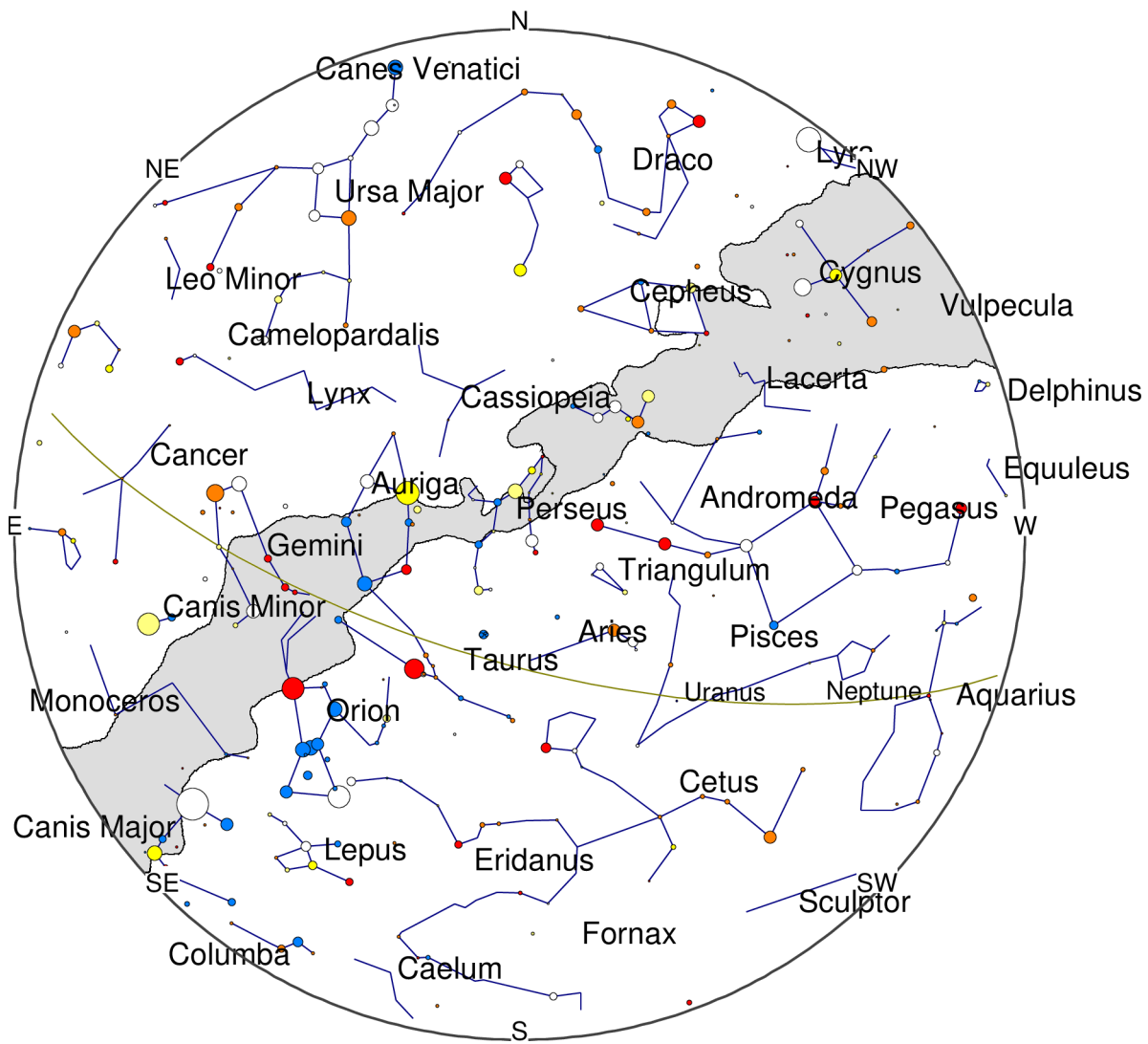
The next meeting will be on **Friday, December 8, 2017**, at **8PM**, at the Welcome Center of Ryerson Woods. Chicago Society for Space Studies President and Digital Artist **Jim Plaxco** will show satellite images of the Earth, and discuss how these images are created and processed to reveal the hidden beauty of our planet: **“Planet Earth As Art: The View From Space”**.

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.

2018 Date	Talk	Speaker	Moon Elongation and Phase
January 12	The Skies of 2018	Terry Witt	42°W – New Moon
Club member Terry Witt will discuss all the observing opportunities in the skies in 2018.			
February 9	TBD	TBD	62°W – Last Quarter
March 9	The Voyager Expedition	Andy Kurz	82°W – Last Quarter
April 13	TLC For a Big Telescope	Michelle Nichols	25°W – New Moon
Michelle Nichols, Master Educator at Adler Planetarium, will talk about how the Adler Planetarium teamed with experts from the Fox Valley Astronomical Society to bring the 20 inch Doane telescope back to life (and hear how a bathroom hair dryer played a part!).			
May 11	TBD	TBD	44°W – New Moon
June 8	TBD	TBD	62°W – Last Quarter
July 13	Gravitational Waves	Dr Andrew Rivers	14°E – New Moon
Dr Andrew Rivers, Distinguished Senior Lecturer at Northwestern University, will talk about gravitational waves.			
August 10	Tabby's Star and Other Discoveries	Jim Kovac	4°W – New Moon
Jim Kovac, NASA Solar System Ambassador, will talk about the latest discoveries concerning Tabby's Star.			

**RYERSON WOODS / WELCOME CENTER
21950 RIVERWOODS RD, DEERFIELD, IL 60015
42° 10' 55" N, 87° 54' 56" W**



Universal Time (UTC): Saturday 2017-12-09 04:00:00
 UTC Adjustment (Time - UTC): -06:00

 Date, Time: Friday 2017-12-08 22:00:00
 Longitude: West 87.91556° = 87° 54' 56"
 Latitude: North 42.18194° = 42° 10' 55"
 Julian Day: 2458096.66666667 (+90.7s = Dynamical time)
 Local Sidereal Time: 03h 22.2m
 Moon Phase: Last Quarter -14°

Object	-----J2000.0-----		----Horizon---		---Ecliptical--		Anglr	
	RA	Dec	Azimuth	Alt	Elong	Constel	Size	Illum
-----	-----	-----	-----	-----	-----	-----	-----	-----
Sun	17h 03.6m	-22° 48'	124° NW	-60°		Sco-Oph	32.5'	
Mercury	17h 42.4m	-22° 55'	112° WNW	-54°	9° E	Sco-Oph	9.6"	6%
Venus	16h 31.8m	-21° 27'	139° NW	-64°	7° W	Sco-Oph	10.0"	99%
Mars	13h 51.7m	-10° 23'	218° NE	-52°	47° W	Vir	4.4"	95%
Jupiter	14h 41.4m	-14° 36'	200° NNE	-60°	35° W	Lib	31.7"	
Saturn	17h 53.3m	-22° 30'	110° WNW	-52°	11° E	Sgr	15.0"	
Uranus	01h 31.9m	+08° 58'	44° SW	+49°	128° E	Psc	3.6"	
Neptune	22h 52.4m	-08° 10'	68° WSW	+11°	84° E	Aqr	2.2"	
Pluto	19h 16.9m	-21° 46'	93° W	-36°	31° E	Sgr	0.1"	
Moon	10h 23.0m	+11° 12'	251° ENE	-3°	104° W	Leo	31.8'	62%