

<http://www.SkokieValleyAstronomers.org>

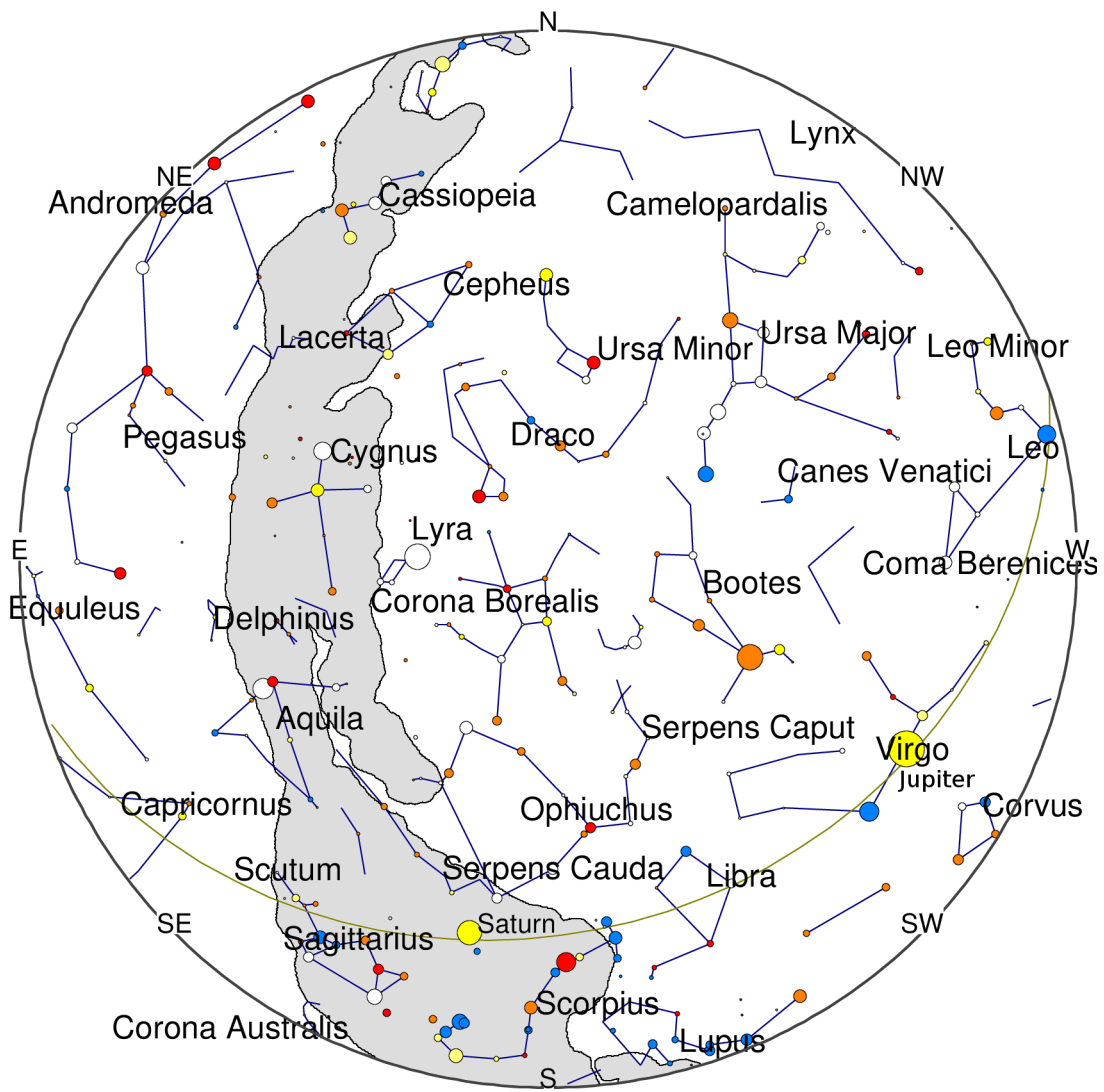
The next meeting will be on **Friday, July 14, 2017**, at **8PM**, at the Welcome Center of Ryerson Woods. **Andrew Rivers**, Associate Professor at Northwestern University, will talk about the nature of science and the scientific method and how we decide our relative certainty and degrees of doubt in different discoveries and ideas: **“How To Think Like a Scientist—The Virtue of Doubt in a Certain World”**.

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
August 11	An Update on Neutrino Research	Gretchen Patti	127°W – Last Quarter
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.			
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

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



Universal Time (UTC): Saturday 2017-07-15 03:00:00
 UTC Adjustment (Time - UTC): -05:00

 Date, Time: Friday 2017-07-14 22:00:00
 Longitude: West 87.91556° = 87° 54' 56"
 Latitude: North 42.18194° = 42° 10' 55"
 Julian Day: 2457949.62500000 (+90.2s = Dynamical time)
 Local Sidereal Time: 16h 42.5m
 Moon Phase: Last Quarter -21°

Object	-----J2000.0-----		----Horizon---		---Ecliptical--		Angrl Size	Illum
	RA	Dec	Azimuth	Alt	Elong	Constel		
Sun	07h 37.6m	+21° 32'	138° NW	-13°		Gem	31.5'	
Mercury	09h 11.9m	+17° 22'	118° WNW	-3°	23° E	Cnc	6.1"	69%
Venus	04h 39.0m	+19° 47'	181° N	-27°	42° W	Tau	16.4"	68%
Mars	07h 54.0m	+21° 56'	135° NW	-11°	4° E	Gem	3.5"	100%
Jupiter	12h 56.4m	-04° 40'	62° WSW	+21°	82° E	Vir	35.8"	
Saturn	17h 26.5m	-21° 54'	348° SSE	+25°	150° E	Sco-Oph	18.0"	
Uranus	01h 45.4m	+10° 16'	228° NE	-23°	84° W	Psc	3.5"	
Neptune	23h 01.7m	-07° 13'	272° E	-8°	129° W	Aqr	2.3"	
Pluto	19h 16.5m	-21° 30'	322° SE	+17°	175° E	Sgr	0.1"	
Moon	00h 13.1m	-02° 56'	256° ENE	-18°	111° W	Psc	31.0'	68%