

<http://www.SkokieValleyAstronomers.org>

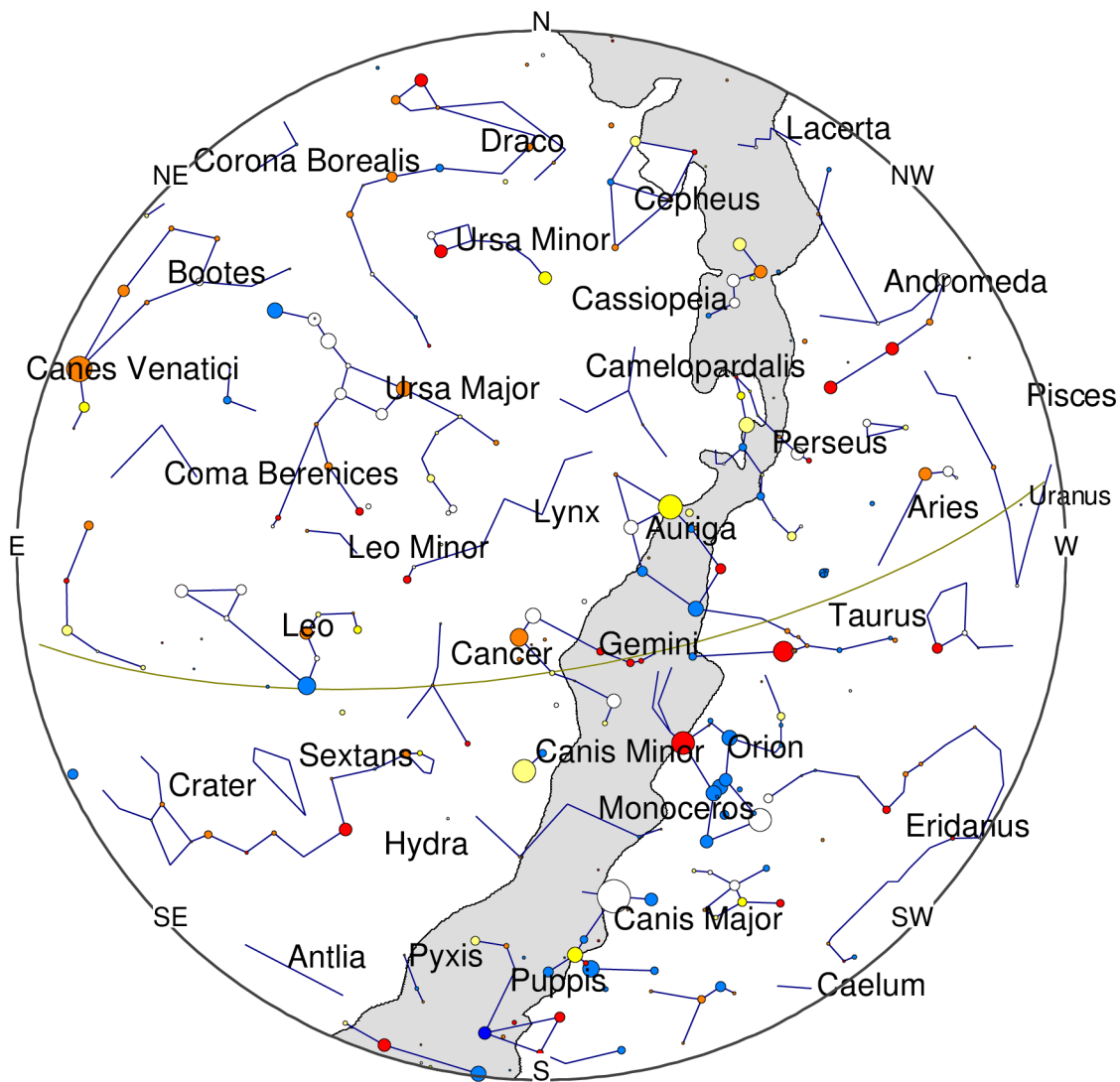
The next meeting will be on **Friday, February 9, 2018**, at **8PM**, at the Welcome Center of Ryerson Woods. **Barak Stoltz** will present a detailed overview of the current technological advancements in spaceflight and exploration systems: **“Recent Developments in Commercial Spaceflight and Launch Systems”**.

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
March 9	The Voyager Expedition	Andy Kurz	82°W – Last Quarter
April 13	TLC For a Big Telescope 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!).	Michelle Nichols	25°W – New Moon
May 11	TBD	TBD	44°W – New Moon
June 8	TBD	TBD	62°W – Last Quarter
July 13	Gravitational Waves Dr Andrew Rivers, Distinguished Senior Lecturer at Northwestern University, will talk about gravitational waves.	Dr Andrew Rivers	14°E – New Moon
August 10	Tabby’s Star and Other Discoveries Jim Kovac, NASA Solar System Ambassador, will talk about the latest discoveries concerning Tabby’s Star.	Jim Kovac	4°W – New Moon

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



Universal Time (UTC): Saturday 2018-02-10 04:00:00  
 UTC Adjustment (Time - UTC): -06:00

-----  
 Date, Time: Friday 2018-02-09 22:00:00

Longitude: West 87.91556° = 87° 54' 56"  
 Latitude: North 42.18194° = 42° 10' 55"  
 Julian Day: 2458159.66666667 ( +91.0s = Dynamical time)  
 Local Sidereal Time: 07h 30.6m  
 Moon Phase: Last Quarter +28°

Object	-----J2000.0-----		----Horizon---		---Ecliptical--		Angr Size	Illum
	RA	Dec	Azimuth	Alt	Elong	Constel		
Sun	21h 34.0m	-14° 27'	127° NW	-50°		Cap	32.4'	
Mercury	21h 14.8m	-18° 09'	129° NW	-56°	6° W	Cap	4.8"	99%
Venus	22h 05.6m	-13° 15'	119° WNW	-45°	8° E	Aqr	9.9"	99%
Mars	16h 28.3m	-21° 12'	255° ENE	-46°	72° W	Sco-Oph	5.9"	90%
Jupiter	15h 19.0m	-17° 07'	265° E	-31°	89° W	Lib	36.8"	
Saturn	18h 23.8m	-22° 26'	220° NE	-65°	46° W	Sgr	15.4"	
Uranus	01h 33.3m	+09° 09'	96° W	+7°	64° E	Psc	3.4"	
Neptune	22h 58.2m	-07° 34'	112° WNW	-32°	22° E	Aqr	2.2"	
Pluto	19h 25.7m	-21° 34'	183° N	-68°	31° W	Sgr	0.1"	
Moon	17h 14.2m	-18° 58'	241° ENE	-52°	62° W	Sco-Oph	29.2'	27%