## November In Review ...and then some



2020 NOVEMBER									
SUN	MON	TUE	WED	THU	FRI	SAT			
1	2	3	4 SSAS Virtual Meeting	5	6	7			
8	9	10	Meeting 11 AsGING	12 AND I	13 MAGIN	<b>d</b> <sup>4</sup>			
15	16 IMAG	iers IN	AGING	19	20	21			
22	23	24	225 Certificate of Achiebenent South Shore Achiebenent South Shore Achiebenent Borrow The Que on Adversory is only for genuing The Comparison of the genuing the Comparison of the genuing	26	27	28			
29	30								

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#### **South Shore Astronomical Society**

Since 1958

**Observing Objectives – November '20** 



A sampling of some rewarding night-sky treats for this month: Open Clusters - See the Caroline Herschel article. Globular Cluster - NGC 288 in Sculptor. Double Star – Sigma Cassiopeia, (5.0, 7.2, 3") a nice challenge. Planetary Nebula - NGC 246 in Cetus, the Skull Nebula. Galaxy - NGC 278 in Cassiopeia, the Observers Challenge object for November. Comet – ATLAS (C2020 M3) is in Orion and brightening. Mercury - Best morning apparition of the year, 19\*W elongation on the 10<sup>th</sup>. Venus - Keeps trekking towards the Sun, 88.5% and 11.7" by the 30th. Mars - Loses almost a magnitude in brightness and shrinks to 14.6" by the 30th. Jupiter - Still not seen the Great Red Spot? Click here to find out when you can. Saturn – The King of the Rings continues to amaze, in the south at sunset. By Day: The Sun - rising from its slumber of minima lately, definitely. New Moon – 11/15 Full Moon+ Eclipse\* - 11/30 Notable Dates: \*Penumbral Eclipse – 4:42am on Monday, Nov. 30th. https://www.timeanddate.com/eclipse/in/usa/boston



NGC 7814





M31, M32, M110

**Matt Schricker** 



M42, M43, Sh2-279

**Carl Bellitti** 



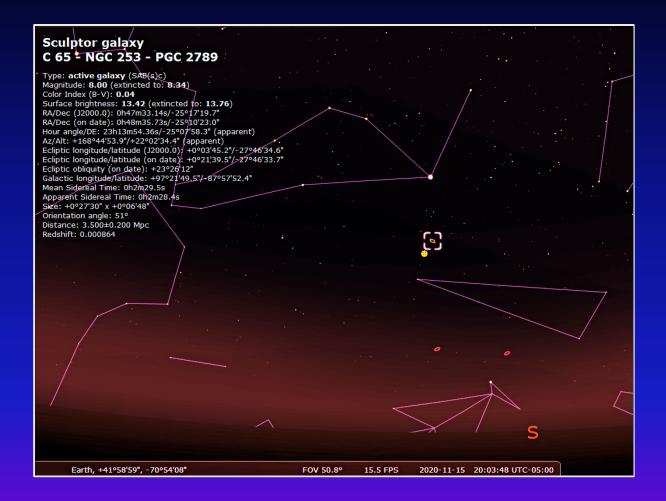
M42, M43, Sh2-279

**Carl Bellitti** 



NGC 253, The Sculptor Galaxy

**Hal Schaefer** 



NGC 253, The Sculptor Galaxy

**Stellarium** 



M1, The Crab Nebula

**Eric Lawrence** 



M1, The Crab Nebula Expansion 1973 - 2000

**GIF Credit: Rochester Institute of Technology** 



NGC 2419, The Intergalactic Wanderer

**Jim Ahola** 

### November 2020 Featured Astrophotos Presenter's Choice



NGC 891

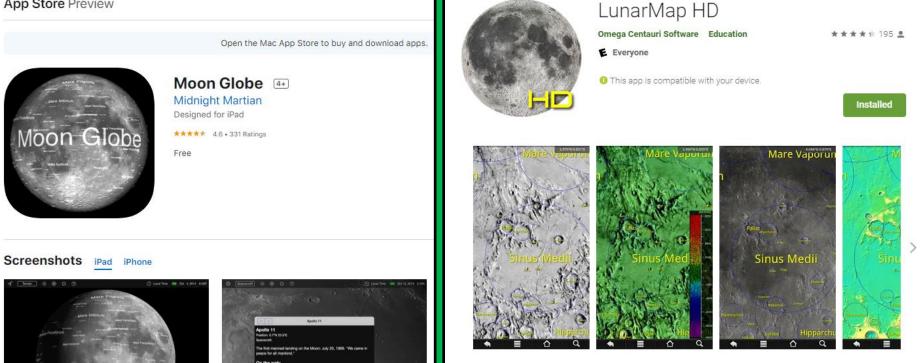
Jim Ahola

## **SSAS Quiz Night**

## Certificate of Achiebement South Shore Astronomical Society Got a Score Of 85/100 On This Quiz on Astronomy is only for geniuses **ProProfs** Nov 25, 2020

## **Moon Observing Tools**

#### App Store Preview



### Apple

### Android

## **Image Processing Tools**

2008 RTMC Clyde Tombaugh Award for Creative Inovation in Astronomy. IP 6.50 Camera Control Control & Auto Focus Guide IP 6.50 x64 & 6.0 x32 Image Processing Tutorials & Articles Image Processing Tutorials & Articles Image Examples Image SPlus Demo Free ImagesPlus 6.5 Download





#### **South Shore Astronomical Society**

Since 1958

**Observing Objectives – December '20** 



A sampling of some rewarding night-sky treats for this month: Open Cluster – Caldwell 1, NGC 188 in Ursa Minor. Globular Cluster – NGC 288 in Sculptor...going low for a glob! Carbon Star – Z Piscium...see red in a good way. Planetary Nebula – M76 in Cassiopiea, the Obs. Challenge object for December. Galaxy – NGC 891 in Andromeda...I double dare you to visually observe this! Comet – Got nuthin' for ya. Mercury – Reaches superior conjunction on the 19th.

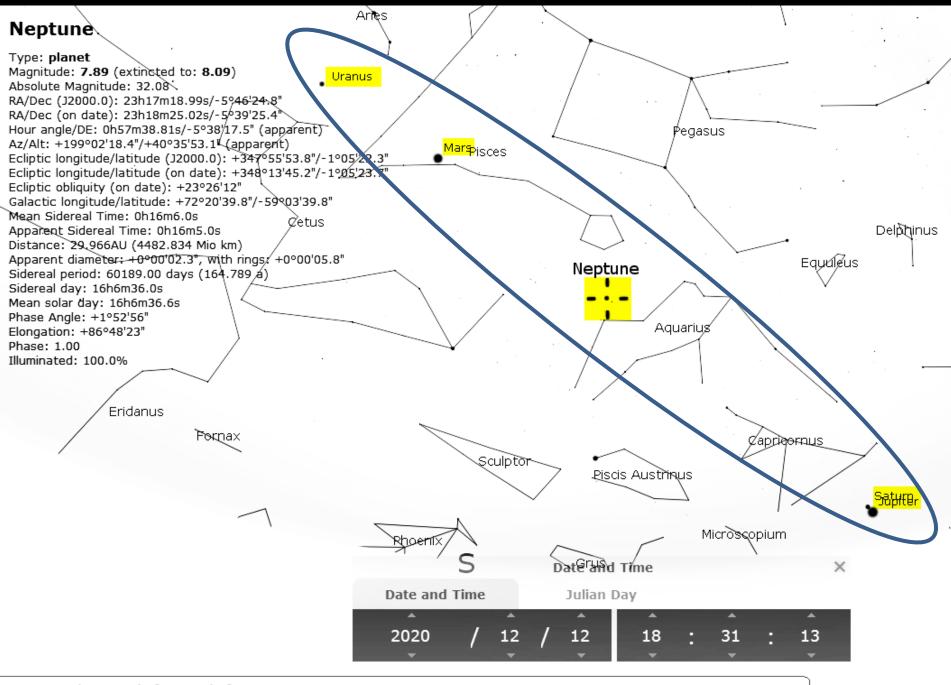
Venus - Shrinks to 10.7" and gets within 21\* of the Sun by the 31st.

Mars - Dims to near 0 magnitude and shrinks to 10.4" by month's end.

Jupiter – Witness the best Great Conjunction of Jupiter and Saturn since 1623, when on December 21" the two most beautiful gas giants in our Solar System will appear separated by just .1\*!

By Day: The Sun - rising from its slumber of minima lately, without doubt now.

Notable Dates: New Moon - 12/14 Solstice - 12/21 Full Moon - 12/29



Earth, +41°58'59", -70°54'08"

FOV 98.9° 15.8 FPS 2020-

2020-12-12 18:31:13 UTC-05:00

### **ANNUAL ELECTIONS**

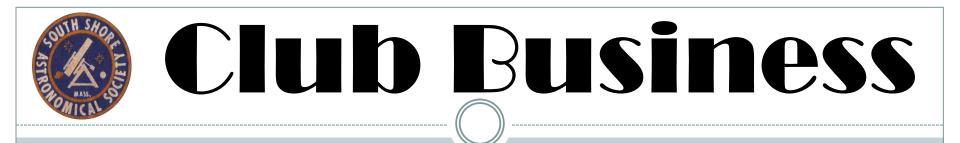
SECTION 1.

(A) The Officers of the society shall be aPRESDIENT, VICE PRESIDENT, SECRETARY and TREASURER.These Officers shall be elected at the December regular meeting by a majority vote and shall serve for ONE (1) year.There shall be no limitation of successive terms for any office.

(B) In addition to the officers named in part (A) of this section, there shall be three (3) DIRECTORS, who together with theses officers shall constitute the BOARD OF DIRECTORS.

Directors shall be elected at the December regular meeting by a majority vote and shall serve for ONE (1) year.

There shall be no limitation of successive terms of DIRECTORS.



### **Current Officer and Board Member Lineup**

President –	Eric Lawrence	Nay	Directors:	
Vice Pres –	Jeff Smith	Yea	Patty Bogan	Yea
Secretary –	Judy Macioci	Yea	Louis Gentile	Any*
Treasurer –	Chuck McCarthy	Nay	Mike McCabe	Any



#### Potential 2021 Officer and Board Member Lineup

- **President** Louis Gentile
- Vice Pres Jeff Smith
- Secretary Judy Macioci
- **Treasurer** Mike McCabe

**Directors:** 

Patty Bogan

Don Greeley

Hal Schaefer

### A Proposal to Display Member Astrophotos at the Scituate Library





Looking Ahead...

### **SSAS Spring Star Party**

If the weather next May looks amenable...

- When Thursday, May 13 to Sunday, May 16, 2021
- Where Hazen's Notch Campground, Lowell, VT
- What Camping and Dark-Sky Observing
- **Cost** \$35 a night (camping only)

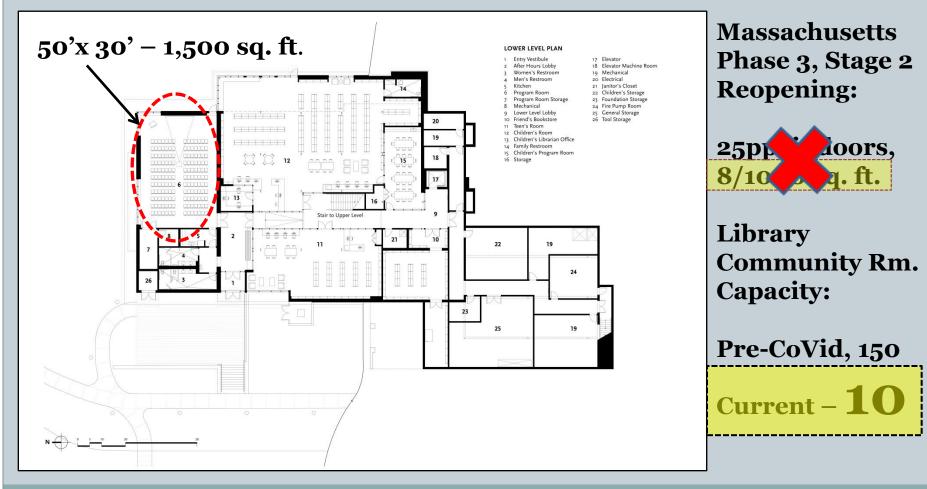


### Looking Ahead...

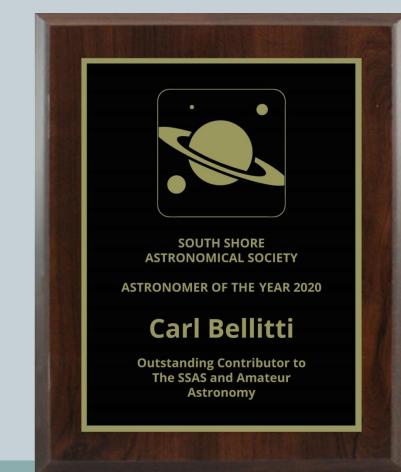
### **SSAS Constellation Study Series**

- When One night per month around New Moon
- Where Centennial Field, Norwell\*
- What Identify the visible constellations... Review ancient mythology... Explore with binoculars...
- **Provided** Planispheres, dim red flashlights, reference materials, laser pointer...
- You Bring A chair, favorite star atlas, binoculars...

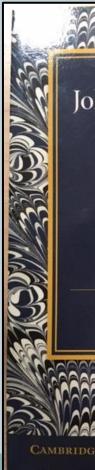
### • Why we (sort of) love Zoom...



### **SSAS** Astronomer of The Year 2020



### **December's Door Prize**



John Couch Adams and the discovery of neptune

Sir Harold Spencer Jones

## **Clear Skies!**

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