

# STRATFORD ASTRONOMY GROUP

SEPTEMBER 17<sup>TH</sup>, 2024





# AGENDA

- Meet and Greet
  - Club NEWS and Activities
  - Club Q & A
  - Equipment Lessons
  - Software and Imaging Information
  - Latest Astronomy NEWS
  - What's UP this Month
  - Show and Tell
  - Astronomy Lessons
  - Cosmology Lessons
  - Conclusion
- 

# MEET AND GREET

**Welcome**  
New Visitors

**Regrets**

**PREVIOUS  
MEETING  
REVIEW**

**Meeting  
attended by  
:**



# UPCOMING MEETINGS

## NEXT MEETING DATES

Date	Room	Location
<del>Sept 17<sup>th</sup>, 2024</del>	<del>104</del>	<del>St. Michael's</del>
Oct 1 <sup>st</sup> , 2024	104	St. Michael's
Nov 5 <sup>th</sup> , 2024	104	St. Michael's
Dec 3 <sup>rd</sup> , 2024	104	St. Michael's
Jan 7 <sup>th</sup> , 2025	104	St. Michael's
Feb 4 <sup>th</sup> , 2025	104	St. Michael's
March 4 <sup>th</sup> , 2025	104	St. Michael's
April 1 <sup>st</sup> , 2025	104	St. Michael's
May 6 <sup>th</sup> , 2025	104	St. Michael's
June 3 <sup>rd</sup> , 2025	104	St. Michael's

## CLUB NEWS AND ACTIVITIES

## Group Funds

**Total = \$1766.82**

- If you would like to contribute to the group, then please e-transfer Tim at:

[timannemariepauli@gmail.com](mailto:timannemariepauli@gmail.com)

or by cheques:

Tim Pauli  
96 Front Street  
Stratford, ON  
N5A4H2

# CLUB NEWS AND ACTIVITIES

## EQUIPMENT:

### STRATFORD ASTRONOMY CLUB EQUIPMENT

### CLUB EQUIPMENT LOCATION:

Paul Bartlett is now storing all the group's equipment. If you wish to borrow an item, then please contact him at:

[1948paul.bartlett@gmail.com](mailto:1948paul.bartlett@gmail.com)

519-274-2010

**New Equipment Donation: Tim**



# CLUB NEWS AND ACTIVITIES

- **New Web site:** (<https://stratfordastronomy.com/>)
  - Tim Pauli - Owner/Administrator
  - Ken Roberts - technical contact
  - Tom Kimber - Administrator/Editor
  - Doug Fyfe - Administrator
  - Michael Burns- Administrator
  - Tom will build it on WordPress.





CLUB Q & A





LATEST ASTRONOMY NEWS

MAY



# WHAT'S UP

## STRATFORD ASTRONOMY GROUP

### WHAT'S UP FOR JUNE



<< August

September 2024

October >>

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1  New Visible: 3% ↓ Age: 28.08 days	2  New Visible: 1% ↓ Age: 29.00 days	3  New Visible: 1% ↑ Age: 0.37 days	4  New Visible: 2% ↑ Age: 1.27 days	5  Waxing crescent Visible: 6% ↑ Age: 2.17 days	6  Waxing crescent Visible: 11% ↑ Age: 3.08 days	7  Waxing crescent Visible: 17% ↑ Age: 3.95 days
8  Waxing crescent Visible: 25% ↑ Age: 4.85 days	9  Waxing crescent Visible: 34% ↑ Age: 5.76 days	10  First quarter Visible: 43% ↑ Age: 6.68 days	11  First quarter Visible: 53% ↑ Age: 7.63 days	12  First quarter Visible: 63% ↑ Age: 8.61 days	13  Waxing gibbous Visible: 73% ↑ Age: 9.62 days	14  Waxing gibbous Visible: 83% ↑ Age: 10.67 days
15  Waxing gibbous Visible: 91% ↑ Age: 11.77 days	16  Waxing gibbous Visible: 97% ↑ Age: 12.89 days	17  Full moon Visible: 100% ↑ Age: 14.05 days	18  Full moon Visible: 100% ↑ Age: 15.22 days	19  Waning gibbous Visible: 98% ↓ Age: 16.39 days	20  Waning gibbous Visible: 92% ↓ Age: 17.55 days	21  Waning gibbous Visible: 84% ↓ Age: 18.68 days
22  Waning gibbous Visible: 75% ↓ Age: 19.77 days	23  Last quarter Visible: 64% ↓ Age: 20.83 days	24  Last quarter Visible: 54% ↓ Age: 21.88 days	25  Last quarter Visible: 43% ↓ Age: 22.85 days	26  Waning crescent Visible: 33% ↓ Age: 23.81 days	27  Waning crescent Visible: 24% ↓ Age: 24.75 days	28  Waning crescent Visible: 18% ↓ Age: 25.68 days
29  Waning crescent Visible: 10% ↓ Age: 26.59 days	30  Waning crescent Visible: 5% ↓ Age: 27.49 days	1 	2 	3 	4 	5 

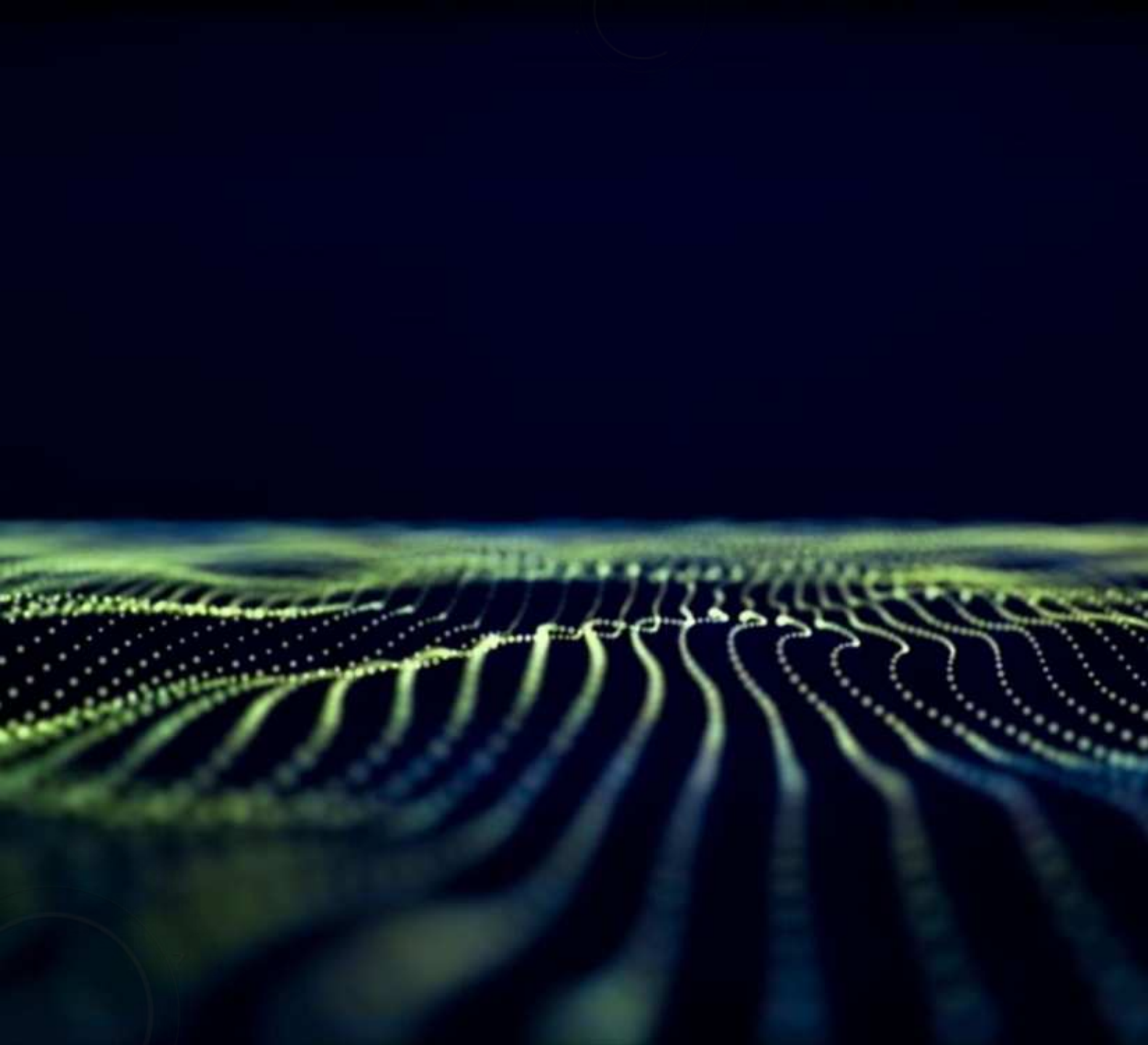
# HEY, THERE BE A MOON OVERHEAD

MOON PHASES FOR THE  
MONTH OF SEPTEMBER



« September 2024 »

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<p><b>1</b>  <a href="#">Conjunction of the Moon and Mercury</a>  <a href="#">Uranus enters retrograde motion</a></p>	<p><b>2</b>  <a href="#">New Moon</a>  <a href="#">Asteroid 194 Prokne at opposition</a></p>	<p><b>3</b></p>	<p><b>4</b>  <a href="#">Mercury at greatest elongation west</a></p>	<p><b>5</b>  <a href="#">Close approach of the Moon and Venus</a>  <a href="#">Conjunction of the Moon and Venus</a>  <a href="#">The Moon at apogee</a>  <a href="#">The Moon at perihelion</a></p>	<p><b>6</b>  <a href="#">Mercury at highest altitude in morning sky</a>  <a href="#">Mercury at dichotomy</a></p>	<p><b>7</b></p>
<p><b>8</b>  <a href="#">Saturn at opposition</a></p>	<p><b>9</b>  <a href="#">September <math>\epsilon</math>-Perseid meteor shower 2024</a>  <a href="#">Mercury at perihelion</a></p>	<p><b>10</b></p>	<p><b>11</b>  <a href="#">Moon at First Quarter</a></p>	<p><b>12</b></p>	<p><b>13</b></p>	<p><b>14</b></p>
<p><b>15</b>  <a href="#">The Moon at aphelion</a></p>	<p><b>16</b></p>	<p><b>17</b>  <a href="#">Close approach of the Moon and Saturn</a>  <a href="#">Conjunction of the Moon and Saturn</a>  <a href="#">Full Moon</a>  <a href="#">Partial lunar eclipse</a></p>	<p><b>18</b>  <a href="#">The Moon at perigee</a></p>	<p><b>19</b></p>	<p><b>20</b>  <a href="#">Neptune at opposition</a></p>	<p><b>21</b></p>
<p><b>22</b>  <a href="#">Close approach of the Moon and M45</a>  <a href="#">September equinox</a></p>	<p><b>23</b>  <a href="#">Close approach of the Moon and Jupiter</a>  <a href="#">Conjunction of the Moon and Jupiter</a></p>	<p><b>24</b>  <a href="#">Moon at Last Quarter</a>  <a href="#">NGC 55 is well placed</a></p>	<p><b>25</b>  <a href="#">Conjunction of the Moon and Mars</a>  <a href="#">Close approach of the Moon and Mars</a></p>	<p><b>26</b></p>	<p><b>27</b>  <a href="#">Daytime Sextantid meteor shower 2024</a>  <a href="#">Comet C/2023 A3 (Tsuchinshan-ATLAS) passes perihelion</a>  <a href="#">47 Tuc is well placed</a></p>	<p><b>28</b></p>
<p><b>29</b>  <a href="#">Asteroid 20 Massalia at opposition</a></p>	<p><b>30</b>  <a href="#">Mercury at superior solar conjunction</a></p>					



LATEST WEBB/HUBBLE  
IMAGES

















# SHOW AND TELL



KEN AND THE  
SEESTAR S50



# COSMOLOGY TALK

