Mars Science News

MEPAG chair, Aileen Yingst, presented a 10-minute Mars-community update to the Planetary Science Advisory Committee (PAC), a NASA committee meant to provide objective, publicly accessible advice to the federal government. The presentation (link here) covered the bevy of spacecraft that have recently arrived at Mars, as well as the discussion and findings from the last MEPAG meeting. The presentation was followed by discussion and Q&A with the PAC members. We encourage interested community members to refer to the [meeting minutes](#) and the [presentation](#).

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A tiny helicopter called Ingenuity is tucked under the belly of the Perseverance rover. It weighs just 1.8kg for its size of a box of tissues (body: 5.4 in × 7.7 in × 6.4 in and landing legs: 1 ft 3.1 in), slung underneath a pair of 1.2m carbon fiber rotors. If everything goes according to plan, Ingenuity will become the first aircraft to fly on Mars. Ingenuity's flight will mark the first attempt at a powered, controlled flight of an aircraft on another planetary body.

Mars' very thin atmosphere (just 1% the density of Earth's) makes flying complex, and Ingenuity's power requirements and communications limitations make real-time communication and real-time control impossible. Ingenuity's flights are pre-planned in detail, though the copter is semi-autonomous; it does not have the capability of doing onboard high-level reasoning. The primary goal for Ingenuity is to show that flight on Mars is possible and collect technical data to enable the next generation of Martian rotorcraft, which will be able to do more ambitious and exciting scientific measurements in future missions.

To understand how NASA is making this happen, please see more information on [NASA's webpage](#).

### Near-term Due Dates (next three months)

<table>
<thead>
<tr>
<th>Due</th>
<th>Conference</th>
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<tbody>
<tr>
<td>April 14</td>
<td>5th Planetary Data Workshop – Abstract Deadline</td>
</tr>
<tr>
<td>June 23</td>
<td>5th Planetary Data Workshop – Registration Deadline</td>
</tr>
</tbody>
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### Upcoming Conferences

- Note that for civil servants and those under contract with NASA, foreign and NASA-sponsored conferences generally need to be forecasted via NCTS. Forecasting to NCTS is usually due 60 days in advance for domestic meetings. If you are unsure whether an event is a conference or not, or when the deadline may be, please consult with your NASA Center conference forecasting/travel unit.
- We have noted conference changes we are aware of – but the impact of COVID-19 continues to evolve. If we show a conference as still happening in the next few months, it is advisable to check the website and confirm with conference organizers.
- VM = virtual meeting.
2021
First-Second Quarter

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>April 19-30, 2021 Virtual Meeting</td>
<td></td>
<td>EGU General Assembly 2021 (vEGU21)</td>
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<tr>
<td>June 28-July 2, 2021 Flagstaff, AZ</td>
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<td>5th Planetary Data Workshop</td>
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Seasons on Mars

<table>
<thead>
<tr>
<th>Season</th>
<th>MY36</th>
<th>MY37</th>
<th>MY38</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start of Northern Spring / L, 0</td>
<td>02/07/2021</td>
<td>12/26/2022</td>
<td>11/12/2024</td>
</tr>
<tr>
<td>Start of Northern Summer / L, 90</td>
<td>08/25/2021</td>
<td>07/13/2023</td>
<td>05/29/2025</td>
</tr>
<tr>
<td>Start of Northern Autumn / L, 180</td>
<td>02/24/2022</td>
<td>01/12/2024</td>
<td>11/29/2025</td>
</tr>
<tr>
<td>Start of Northern Winter / L, 270</td>
<td>07/21/2022</td>
<td>06/07/2024</td>
<td>04/25/2026</td>
</tr>
</tbody>
</table>

U.S. Federal holidays to consider when scheduling conferences/workshops/meetings

Federal Holidays

New Year’s Day: January 1
Martin Luther King, Jr.: January 18
Washington’s Birthday: February 15
Memorial Day: May 31
Independence Day: July 5
Labor Day: September 6
Columbus Day: October 11
Veterans Day: November 11
Thanksgiving Day: November 25
Christmas Day: December 24

Editors

David Beaty: David.Beaty@jpl.nasa.gov 818-354-7968
Sona Hosseini: Sona.Hosseini@jpl.nasa.gov 626-660-5447
Brandi Carrier: Brandi.L.Carrier@jpl.nasa.gov 818-354-9956
Barbara Saltzberg: Barbara.A.Saltzberg@jpl.nasa.gov 818-354-0226

Please send Mars Community Announcements and calendar items for inclusion in next month’s newsletter to: Barbara Saltzberg at Barbara.a.Saltzberg@jpl.nasa.gov

This newsletter (and all previous months’) is also posted on the MEPAG website: http://mepag.jpl.nasa.gov
If you wish to withdraw from the electronic mailing list that this newsletter is sent out to, please send an email from your email account to mepag-removesignup@jpl.nasa.gov.

To be added to this list and receive this monthly newsletter and other Mars Science announcements, or to update your MEPAG directory information (which contains the email list used for sending out this newsletter), send an email to mepag-signup@jpl.nasa.gov from the email account you’d like added, with your full name and institution.