



**1. Call to Order/Roll Call and Announcements**

The meeting was called to order at 3:07 p.m. There were 8 members present at roll call.

Subcommittee member Esposito shared information regarding a job opportunity for a community outreach coordinator. Any interested parties should contact [Treesmatter.org](http://Treesmatter.org).

Subcommittee member Chandler reported the Inflation Reduction Act passed. A list of comments is being compiled by Union of Concerned Scientists and will be sent to senators.

Subcommittee member Berisha reported that funding will be ending on September 22, 2022, for the energy insecurity workgroup leadership program. There will be a transitional workgroup for potential opportunities. A Maricopa County Public Health community focused survey will be distributed to members.

**2. Review and approval of April 12, 2022 Minutes**

**ACTION:**

Vice Chair Myers made a motion to approve the April 12, 2022 minutes. Subcommittee member Berisha seconded the motion. The motion carried 7:0. Subcommittee member Rodriguez abstained from the vote.

**3. Public Comments**

Larry Rock introduced himself and informed the subcommittee that he had submitted his application and resume to become a member of the Environmental Quality and Sustainability Commission.

**4. Cool Pavement Pilot Program**

Dr. Jennifer Vanos, Assistant Professor, Arizona State University presented on the Cool Pavement Pilot Program. The program started in 2020 and includes participants from ASU, City of Phoenix liaisons from the Street Transportation Department, and Office of Sustainability.

Cool pavement is also known as “reflective” pavement that is light grey in color and reduces surface temperatures. Data collection consisted of eight neighborhood pilot test sites throughout Phoenix and one park street/parking. A total of 36 miles of data collection took place on residential streets in August and September 2020. Evaluations consisted of on-site full-day data collection in three newly treated neighborhoods. Data collection was obtained via car, wagon and arial (helicopter). Surface, air and mean radiant temperatures were taken on extreme heat days. Four daily comparisons were made at sunrise, high sun, high temp, and sunset. The surface temperature results were 12.0 and 10.5 °F at noon, 2.4 °F lower at sunrise, 4.8 °F lower after sunset. Overall, there has been satisfaction with the Cool Pavement pilot program as communicated by the city. On average residents have shared positive and wide-ranging opinions about the program. Opinions expressed were concerning visual appeal, impacts on property value, longevity, visual appeal, and surface friction. At the time of the program, Cool Pavement was the most extensive application globally, and the first to present results on the real-world thermal performance. Current work continues evaluating heat and continuation of long-term performance testing.

Chair Torres inquired about mean radiant temperatures and if walking on a sidewalk

without shade versus walking on a shaded sidewalk would be of less impact.

Dr. Vanos responded, that it's not good on playgrounds, high rises and shaded areas as the heat reflects onto people.

Subcommittee member Rodriguez asked about the lab testing for durability and long-term testing results versus asphalt which is composed of oil lubricants from cars driving over it. Dr. Vanos stated that a cool seal is only intended for streets that do not have heavy traffic.

Subcommittee member Rodriguez asked about preservation and durability of the pavement.

Dr. Vanos replied it is still being evaluated, or someone at the city may know the answer to this, she does not. ASU has conducted studies on temperature monitoring and the city is studying the durability and reapplication cycle compared to a traditional sealant.

Subcommittee member Rodriguez also asked where the funding for Cool Pavement comes from. Dr. Vanos explained the funding is a combination of funds from an Intergovernmental Agreement with the city and using existing monitoring equipment ASU already owned.

Subcommittee member Esposito expressed concern with regards to community outreach to the visually impaired and recommended a representative from ASU for community engagement. Dr. Vanos stated that they are receiving feedback from the community.

Vice Chair Myers asked about how to combine walkability with shade use.

Dr. Vanos reported that they are having conversations with urban planners.

Chair Torres asked who would like to volunteer with potential recommendations to present to the Environmental Quality and Sustainability Commission. Subcommittee members Bettis and Esposito volunteered.

## **5. Update from the Heat Office**

Dr. David Hondula, Office of Heat Response and Mitigation Chief Heat Officer reported his staff is now at full capacity with Lora Martens as Urban Tree Program Manager coming on board on March 28, Mary Wright as Built Environment Specialist on July 5, and Alicia Arauz-Orozco as Administrative Assistant on August 8.

The heat response plan was approved in March with 31 total programs and 24 fully operational programs, 2 partially operational and 5 that are currently in planning and preparation. Heat response effort included 56 facilities for the Heat Relief Network, 56 shifts, and 2,250 contacts for the We're Cool Program. Approximately 38,000 items were given out to 50 local organizations. Over 300 people were served at the 28<sup>th</sup>/Washington Street Shelter. Heat response efforts of heat related calls to the Phoenix Fire Department (April-October) increased from 1,157 in 2021 to 1,281 in 2022.

Dr. David Hondula also reported that the second tranche of the American Rescue Strategic Plan was approved. A total of \$6 million of tree equity, \$4.5 million in home weatherization, and \$3 million in shade structures in the public right of way was included.

Dr. David Hondula also presented a map of the top areas for the ARPA Tree Planting Program. Five main areas of interest include Alhambra (District 4/5), West Encanto Village (District 4), Maryvale (District 5), Central City South (District 8), South Phoenix (District 7/8). Furthermore, the Tree and Shade Masterplan has been updated to include new goals and strategies to align with other plans.

Subcommittee member Rodriguez asked about home weatherization guidelines and concern for vulnerable communities.

Dr. David Hondula reported that there are income guidelines for home weatherization, as well as ARPA guidelines for qualified census tracts. The CAP update will be in October 2023 and will align with the Tree and Shade Update Plan.

Subcommittee member Berisha reported there is workforce development occurring in recruiting individuals from low-income neighborhoods in home weatherization jobs. They are also seeking funding in workforce investments.

#### **6. Green Infrastructure/Low Impact Development Memo Discussion**

Vice Chair Myers reported there has not been comments from members regarding the memo.

Subcommittee member Halperin reported she has started compiling information for the memo and has not completed. She will re-circulate a new memo before the next UHITS meeting.

#### **7. Adjournment** – The meeting was adjourned at 4:53 p.m.

Respectfully Submitted,

Anita Ponce, Administrative Assistant I