Please assign a scale value for each of the following technical challenges related to your paving or resurfacing projects.

1. Testing requirements: 2.8
2. Mix design types: 2.8
3. Mix design reviews: 2.4
4. Pavement quality / performance issues: 3.2
5. Specification issues: 3.1
6. Other: 1.8
Please type in any additional technical challenges you are currently experiencing on your paving or resurfacing projects.

- Test Time Turnaround
- Price increases.
- Specifications for high RAP use
- Adhering to outdated tests for acceptance
- Non acceptance of RAP mixes
- Oil index variation and cost
- Wearing surface deteriorating faster with high rap in mix
- Deviation of approved mix designs
- Availability of material with high oil prices
Please type in any additional technical challenges you are currently experiencing on your paving or resurfacing projects.

Association members are reporting many overweight permit delays and higher cost

One off specification design in place of commonly used specs

Lack of understanding of HMA tests by agency. Test and report only, no investigation or technical review of test data to determine if there is an actual problem or if there were issues during testing.

rejection of new technologies

Non inspection at asphalt plant to confirm RSP usage

Variety of specifications among local agencies for the same material

qualified staff

Oil pricing for existing contracts. Non Caltrans projects should be tied to oil index just like Caltrans projects

This is cool
Please type in any additional technical challenges you are currently experiencing on your paving or resurfacing projects.

- Inconsistency in the aggregate quality
- Inspector inexperience
- Staff leaving the industry for higher paying, less labor-intensive jobs.
Please assign a scale value to the following potential new topics you would like to see the BBR working group tackle.

a. Latest Caltrans/Greenbook specifications being developed
   - Scale: 3.6

b. Current Research and Development
   - Scale: 3.5

c. Pilot projects
   - Scale: 3.5

d. Engineering sustainable solutions
   - Scale: 3.6

e. Wearable technology
   - Scale: 2.3

f. Other
   - Scale: 1.6
Please type in any additional new topics you would like to see the BBR working group tackle:

- Balance Mix Design difference
- More use of Warm Mix Technology
- Significantly Reduce mix temperature with WMA
- Review of pilot/new additive results
- Aggregate supplies.
- AQMD Regulation
- EPD's - implementation, use and setting goals
- Fiber in HMA
- Odor and AQMD vs Spec
Please type in any additional new topics you would like to see the BBR working group tackle

- Plastic in HMA
- Sustainability - Sustainability - Sustainability
- Specifying higher RAP percentage
- New Pavement Management Systems
- Tools for measuring environmental benefits
- Foam vs Chemical warm Mix
- extending surface life and dependability
Please assign a scale value to the following types of sustainability goals your organization is implementing or considering over the next couple years:

- **CAPs**: 3.1
- **EPDs**: 3.7
- **GHG Reductions**: 4
- **Other**: 1.5
Please type in any additional types of sustainability goals your organization is implementing or considering over the next couple years.

<table>
<thead>
<tr>
<th>Cool pavement.</th>
<th>Storm water quality</th>
<th>EV's</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foam vs Chemical Warm Mix</td>
<td>Zero waste with compost and greens collection</td>
<td>Construction phasing</td>
</tr>
<tr>
<td>Warm Mix</td>
<td>increased recycling</td>
<td>rejuvenating seals</td>
</tr>
</tbody>
</table>
Please type in any additional types of sustainability goals your organization is implementing or considering over the next couple years

cool pavement
Please assign a scale value to the following training topics that you think would be helpful for your paving program:

a. Pavement treatment type selection: 4.1
b. Determining quantity and frequency of testing: 3.3
c. Life cycle planning: 3.8
d. Inspection best practices: 3.7
e. Other: 1.6
Please type in any additional training topics that you think would be helpful for your paving program:

- EPDs
- HMA Plant Inspection training
- New test equipment for BMD
- New paving equipment/technology.
- Paving condition rating/Pavement management program
- APCD interaction with BBR
- Maintenance options for non standard road sections
- Sustainable paving alternatives
- Use and importance of tack coat
Please type in any additional training topics that you think would be helpful for your paving program:

Balanced Mix Design