How do ‘Science & Society’ perspectives shape adult structured learning?

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### Challenges

- Adult learners not blank slates & face barriers to participation in science cafés
- STS (Science and Technology Studies): ‘nature of science’ assessed in K-12 but less developed work on ISE
- Community Engagement: Six programs with Richmond, VA science café & university partners
- Refined H.S. STS assessment constructs to assess lifelong learning with flexible curriculum

### Achievements

- STS Scholars in Science Cafés
  - Historians, Philosophers, Sociologists of Science Giving 30-min talks + 30-min Q&A discussions

#### Assessment Development Model

<table>
<thead>
<tr>
<th>Construct B</th>
<th>SCIENCE AS HUMAN ENDEAVOR</th>
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<tbody>
<tr>
<td>Expanded Perspective</td>
<td>Described one or more ways scholar broadened their view</td>
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<tr>
<td>Reinforced Perspective</td>
<td>Shared how scholar’s view matched or refined their existing beliefs</td>
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<tr>
<td>STS Appreciation</td>
<td>Noted importance of historical, social and/or interdisciplinary analysis</td>
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<tr>
<td>Complexity</td>
<td>Noted wide range of factors involved</td>
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#### Café on Bee Colony Collapse Disorder (n=66)

- Expanded Perspective
- Reinforced Perspective
- STS Appreciation
- Complexity

#### Café on Car Regulation & Technology (n=54)

- Expanded Perspective
- STS Appreciation
- Complexity

#### Café on STEM Diversity (n=54)

- Individuality
- Curiosity
- Values of Science

#### Café on Synthetic Biology (n=78)

- Individuality
- Curiosity
- Values of Science

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