



Cutting Edge Physics for Teachers

DAY 1 (September, 14)

DAY 2 (September, 15)

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| 09:00 am | Registration | 10:00 am | Scientific Models |
| 10:00 am | Introduction | 10:15 am | Process of Science: What do you see? Observation/Inference |
| 10:15 am | Scientific Models: Black Box | 10:30 am | Process of Science: 'Why is it like that?' Frayer model activity |
| 10:30 am | Quantum Reality: Wave-Particle Duality | 11:15 am | What's New in Physics: EHT & LIGO |
| 11:30 am | COFFEE BREAK | 12:15 am | COFFEE BREAK |
| 11:40 am | Black holes: How do you make a black hole? Estimating the mass of Sgr A* | 12:25 pm | The Expanding Universe: Expansion of space/Where is the centre? |
| 1:00 pm | Lunch | 1:30 pm | Lunch |
| 2:30 pm | Dark Matter | 2:45 pm | Ask a Physicist: Bring your toughest student questions |
| 3:45 pm | COFFEE BREAK | 3:45 pm | COFFEE BREAK |
| 4:00pm | Evidence for Climate Change | 4:00pm | Particle Physics: Conservation of momentum in particle collisions |
| 5:30pm | Participants depart | 5:30pm | Participants depart |