

Judicial Science School

October 31-November 4, 2022



Schedule Summary

Monday, October 31

- 8:00 AM Introductions & Overview - *Chuck Farrar, NSEC & Judy Humphrey, GC-DO*
- 8:45 AM Meal Preference & Entrance Evaluation - *Skylar Richmond Friesen, NSEC*
- 9:00 AM Lecture - *Science, Engineering, and Technology - Chuck Farrar*
- 9:45 AM Discussion & Break - *Chuck Farrar*
- 10:00 AM Lecture - Hypotheses, Theories, Facts, and Laws – *Mike Todd, UCSD*
- 10:45 AM Lecture - The Scientific Method - *Dave Clark, NSEC*
- 12:15 PM Lunch, Q&A - *John Sarrao, Deputy Director for Science, Technology, & Engineering*
- 1:00 PM Tour - National High Magnetic Field Lab
- 3:00 PM Interactive - Doing Science Part 1 - Hooke's Law – *Scott Ouellette, W-13 & Alex Marchi, MPA-11*
- 4:45 PM Discussion & Afternoon recap - *Chuck Farrar*
- 5:00 PM Break
- 6:00 PM Reception at the Bradbury Science Museum - *Dave Clark*
- 8:00 PM End of Day's Program

Tuesday, November 1

- 8:00 AM Discussion & Morning Recap - *Chuck Farrar*
- 8:15 AM Lecture - Confidence and Uncertainty - *François Hemez, Lawrence Livermore Nat. Laboratory*
- 9:00 AM Lecture - Assessing Technology and Science - *Duncan McBranch, PPO*
- 9:45 AM Lecture - Statistics - Variation, Uncertainty, Probability - *Scott Vander Wiel, CCS-6*
- 10:30 AM Discussion & Break - *Chuck Farrar*
- 11:00 AM Seminar – Climate Models & Predicting Future Climate Change – *Phil Jones, T-3*
- 11:45 AM Lunch
- 12:45 PM Tour – Nicholas Metropolis Supercomputing Center
- 3:00 PM Interactive - Presenting Science Part 1 – *Scott Ouellette & Alex Marchi*
- 4:45 PM Discussion & Afternoon recap - *Chuck Farrar*
- 5:00 PM End of Day's Program

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Wednesday, November 2

- 8:00 AM Discussion & Morning Recap - *Chuck Farrar*
- 8:15 AM Lecture - Verifying & Validating Simulation Models - *François Hemez*
- 9:00 AM Discussion & Break - *Chuck Farrar*
- 9:15 AM Lecture - Statistics – Causation or Coincidence? - *Scott Vander Wiel*
- 10:30 AM Discussion & Break - *Chuck Farrar*
- 10:45 AM Seminar – How did NM get its mountains, valley, and volcanos? – *Andrew Delorey, EES-17*
- 11:45 AM Lunch
- 12:45 PM Interactive-Doing Science Part 2: Standing on the Shoulders of Giants – *Alex Marchi*
- 3:00 PM Interactive - Presenting Science Part 2 – *Alex Marchi & Scott Ouellette*
- 4:45 PM Discussion & Afternoon recap - *Chuck Farrar*
- 6:00 PM Depart for dinner at Restaurant Martin in Santa Fe
- 9:30 PM End of Day's Program

Thursday, November 3

- 8:00 AM Discussion & Morning Recap - *Chuck Farrar*
- 8:15 AM Lecture - The Art of Approximation - *Catherine Plesko, XTD-NTA*
- 9:00 AM Lecture – Science & the Law: A Case Study – *Judy Humphrey, OGC*
- 9:30 AM Discussion & Break - *Chuck Farrar*
- 9:45 AM Lecture - Making Connections between Science and Law – *Tamara Safarik, GC-LEL*
- 10:30 AM Discussion & Break - *Chuck Farrar*
- 10:45 AM Seminar – Beyond Pluto: The Search for the Edge of the Solar System – *Herb Funsten, ISR*
- 11:45 AM Lunch
- 1:00 PM Interactive - Doing Science Part 3 - Analysis – *Scott Ouellette & Alex Marchi*
- 3:00 PM Interactive - Judging Science Part 1 – *Jerry Dixon & Steve Scholl; Dixon, Scholl, Carrillo, P.A.*
- 4:45 PM Discussion & Afternoon recap - *Chuck Farrar*
- 5:00 PM End of Day's Program

Friday, November 4

- 8:00 AM Discussion & Morning Recap - *Chuck Farrar*
- 8:15 AM Interactive - Judging Science Part 2 – *Jerry Dixon & Steve Scholl*
- 10:30 AM Discussion & Break - *Chuck Farrar*
- 10:45 AM Seminar – Augmented Reality – *David Mascareñas, E-1*
- 11:45 AM Lunch
- 1:00 PM Interactive - Judging Science Part 3 – *Jerry Dixon & Steve Scholl*
- 3:00 PM Exit Evaluation – *Skylar Richmond Friesen*
- 3:30 PM Closing and Feedback - *Chuck Farrar*
- 4:00 PM End of Program