

ICAM Week of Science

Monday August 31, 2026

- 08:45 **Dean Estella Atekwana**, *UC Davis College of L & S* (15 min)
Welcome Address
- 09:00 **Herbie Levine**, *Northeastern* (60 min)
Plasticity governs tumor progression
- 10:00 **Sujit Datta**, *Caltech* (60 min)
Life in a Tight Spot: Spying on Microbes in Complex Spaces
- 11:00 **Coffee Break** (40 min)
- 11:40 **Round Table Discussion–**
Steve White, *UC Irvine* and **Daniel Cox**, *UC Davis* (60 min)
Impact of AI on Condensed Matter Research
- 12:40 **Lunch** (80 min)
- 14:00 **Mark Bowick**, *UC Santa Barbara* (60 min)
Topological Rigidity and non-Abelian Line Defects
- 15:00 **Hernan Garcia**, *Berkeley* (40 min)
Using Physics as a Microscope to Dissect Transcriptional Dynamics in Development
- 15:40 **Coffee Break** (40 min)
- 16:20 **Evelyn Tang**, *Rice* (40 min)
Topology protects robust function in living and soft matter
- 17:00 **Daniel Sussman**, *Emory* (40 min)
Bending Space and Delaying Time: Breaking symmetries in active matter
- 17:40 **End of day 1**

Tuesday September 1, 2026

09:00 **ICAM SSC Meeting** (60 min)

10:00 Coffee Break (20 min)

10:20 **ICAM SSC Meeting** (60 min)

11:20 Coffee Break (40 min)

12:00 **Liang Fu, MIT** (60 min)

First-principles AI for quantum matter 13:00 Lunch (80 min)

14:20 Excursion

18:00 Conference Dinner

19:40 End of day 2

Wednesday September 2, 2026

- 09:00 **Silke Paschen**, *TU Wien* (60 min)
New Probes of Strange Metals
- 10:00 **Alan Tennant**, *University of Tennessee, Knoxville* (60 min) *TBD*
- 11:00 **Coffee Break** (40 min)
- 11:40 **Hung-Cheng Wu**, *National Sun Yat-sen University, Taiwan* (40 min)
TBD
- 12:20 **Tessa Cookmeyer**, *UC Davis* (40 min)
Triangular lattice magnets: hidden order and dimer criticality
- 13:00 **Lunch** (60 min)
- 14:00 **Jorg Wrachtrup**, *Stuttgart University and Max Planck Institute* (40 min)
Quantum Sensors for Quantum Matter
- 14:40 **Chunhui Du**, *Georgia Tech* (40 min)
Quantum Sensing of Quantum Materials
- 15:20 **Thomas Theis**, *UC Davis* (40 min)
Nuclear Spin Quantum Sensing in Chemistry, Biology and Medicine
- 16:00 **Coffee Break** (40 min)
- 16:40 **Poster Session**
- 17:40 **End of day 3**

Thursday September 3, 2026

- 09:00 **Peter Armitage**, *John Hopkins* (40 min)
Many-body quantum geometric effects and entanglement at the 3D metal-insulator quantum phase transition
- 09:40 **Inna Vishik**, *UC Davis* (40 min)
Cuprate superconductivity beyond the dome
- 10:20 **Joe Orenstein**, *UC Berkeley* (40 min)
KTB superfluid density jump observed by magnon propagation in an an-tiferromagnet/BSCCO heterostructure
- 11:00 **Coffee Break** (40 min)
- 11:40 **Round Table Discussion** (60 min)
- 12:40 **Lunch** (80 min)
- 14:00 **Tanusri Saha Dasgupta** *S. N. Bose Centre, Kolkata* (40 min)
Interplay of SOC and Coulomb Interaction – Route to Unconventional Magnetism
- 14:40 **Ricardo Urbano**, *Universidade Estadual de Campinas* (40 min)
Mapping Correlated Electron Phenomena in Heavy Fermions: A Solid State NMR Perspective
- 15:20 **Coffee Break** (40 min)
- 16:00 **Monica Allen**, *UC San Diego* (40 min)
Microwave imaging of layered quantum materials
- 16:40 **Shuqiu Wang**, *University of Bristol* (40 min)
Visualizing the Odd-Parity Superconducting Order Parameter and Its Quasiparticle Surface Band in UTe₂
- 17:20 **End of day 4**

Friday September 4, 2026

- 09:00 **Joe Meese**, UIUC (40 min)
When the Lattice Strikes Back: The Impact of Incompatible Strain on Correlated Electronic Phenomena
- 09:40 **Shreenanda Ghosh**, University of Cologne (40 min)
Exploring Layered Magnets via Raman Spectroscopy: From Weyl Semimetals to Multiferroics
- 10:20 **Eduardo da Silva Neto**, Yale (40 min)
Observing two-electron interactions with correlation-ARPES
- 11:00 **Coffee Break** (40 min)
- 11:40 **Aharon Kapiltunik**, Stanford (40 min)
Gyrotropic Effects in Magic-Angle Twisted Bilayer Graphene
- 12:20 **Vidya Madhavan**, UIUC (40 min)
Evidence for Topological Superconductivity in UTe_2
- 13:00 **Adjourn**

ICAM Week of Science 2026 (8/31 to 9/4/2026)

Start	End	Monday Aug 31	Tuesday Sept 1	Wednesday Sept 2	Thursday Sept 3	Friday September 4	
8:30	9:00	Opening					
9:00	9:20	"Plasticity Governs Tumor Progression" Herbie Levine	ICAM SSC Meeting	"New Probes of Strange Metals" Silke Paschen	"Many-body Quantum Geometric Effects and Entanglement at the 3D Metal-Insulator Quantum Phase Transition" Peter Armitage	"When the Lattice Strikes Back: The Impact of Incompatible Strain on Correlated Electronic Phenomena" Joe Meese	
9:20	9:40				"Cuprate Superconductivity Beyond the Dome" Inna Vishik		"Exploring Layered Magnets via Raman Spectroscopy: From WeylSemimetals to Multiferroics" Shreenanda Ghosh
9:40	10:00						
		"Life in a Tight Spot: Spying on Microbes in Complex Spaces" Sujit Datta	Coffee Break	Plenary 6 - Allan Tennant	"KTB Superfluid Density Jump Observed by Magnon Propagation in an An-tiferromagnet/BSCCO Heterostructure" Joe Orenstein	"Observing Two-Electron Interactions with Correlation-ARPES" Eduardo da Silva Neto	
10:00	10:20						
10:20	10:40						
		Coffee Break	ICAM SSC Meeting	Coffee Break	Coffee Break	Coffee Break	
10:40	11:00						
11:00	11:20						
11:20	11:40						
11:40	12:00	Round Table (60 Min) - "Impact of AI on Condensed Matter Research" Steven White and Daniel Cox	Coffee Break	"Magnetci Structure Determination and Its Applications: Exploring Piezomagnetic and Magnetoelectric Effects" Hung-Cheng Wu	Round Table 2	"Gyrotropic Effects in Magic-Angle Twisted Bilayer Graphene" Aharon Kapitulnik	
			"First-principles AI for quantum matter" Liang Fu				"Triangular Lattice Magnets: Hidden Order and Dimer Criticality " Tessa Cookmeyer
12:00	12:20						
12:20	12:40				"Evidence for Topological Superconductivity in UTe2" Vidya Madhavan		
		Lunch	Lunch	Lunch		Adjourn	
12:40	13:00						
13:00	13:20						
13:20	13:40						
13:40	14:00						
14:00	14:20	"Topological Rigidity and non-Abelian Line Defects" Mark Bowick	Excursion	"Quantum Sensors for Quantum Matter" Jorg Wrachtrup	"Interplay of SOC and Coulomb Interaction – Route to Unconventional Magnetism" Tanusri Saha Dasgupta		
14:20	14:40						
14:40	15:00	"Using Physics as a Microscope to Dissect Transcriptional Dynamics in Development" Hernan Garcia		"Quantum Sensing of Quantum Materials" Chunhui Du	"Mapping Correelectrom Phenomena in Heavy Fermions: A Solid State NMR Perspective" Ricardo Urbano		
15:00	15:20						
15:20	15:40	Coffee Break		"Nuclear Spin Quantum Sensing in Chemistry, Biology and Medicine" Thomas Theis	"Microwave Imaging of Layered Quantum Materials" Monica Allen		
15:40	16:00						
16:00	16:20						
16:20	16:40	"Topology Protects Robust Function in Living and Soft Matter" Evelyn Tang	Coffee Break	Coffee Break			
16:40	17:00		Poster Session	"Visualizing the Odd-Parity Superconducting Order Parameter and Its Quasiparticle Surface Band in UTe2" Shuqiu Wang			
17:00	17:20						
17:20	17:40	"Bending Space and Delaying Time: Breaking Symmetries in Active Matter" Daniel Sussman	Excursion				
17:40	18:00						
18:00	18:20						
18:20	18:40	Conference Dinner	Conference Dinner				
18:40	19:00						
19:00	19:20						
19:20	19:40						