



FermiFusion Workshop: Uniting Minds for Scientific Advancement August 5 - 7, 2024

Closed-toe flat shoes must be worn for tours.

Monday, August 5

12:00 - 4:45 pm **Arrival O'Hare Airport**
*Transportation times to hotel will vary by individual

Hotel
Hyatt Place
27576 Maecliff Drive, Warrenville, IL 60555
630-836-9800

5:30 - 7:00 pm (Optional) **Maggiano's Little Italy \$\$**
[Freedom Commons | Maggianos.com](https://www.maggianos.com)
1847 Freedom Dr, Naperville, IL 60563
Sandra Charles, Chief Equity, Diversity, Inclusion and Accessibility Officer
Anahi Ruiz Beltran, Diversity & Inclusion Specialist - Climate, Culture and Belonging
Cortez Watkins, Senior Workforce Pathways and Partnerships Liaison
Kaitlyn Anderson, Diversity & Inclusion Specialist - Communications and Analytics

***No Host Dinner:** Attendees cover their own meal and transportation costs.

Tuesday, August 6

7:30 - 8:00 am **Arrival at Fermilab - Badge Pick-Up**
Batavia Road Entrance from Route 59

8:20 am **Welcome and Introductions - Group photo**
Wilson Hall (WH), Atrium, enter through front doors on horseshoe

8:45 am **Brief History of Fermilab**
Valerie Higgins, Laboratory Archivist

9:00 am Board Shuttle
Wilson Hall (WH), Horseshoe

9:15 - 10:15 am **Fermilab Campus - Riding Tour**

10:15 am Coffee Break
WH2 Crossover

10:30 -10:35 am Safety Message
Curia II, WH2 SW
Azariah Israel, Environment, Safety & Health Specialist Specialist, ES&H

Emerging Technologies

Curia II, WH2 SW

10:35 - 11:00 am **Artificial Intelligence and Machine Learning**
Jennifer Ngadiuba, PhD, Associate Scientist, AI for High Energy Physics, PPD

Quantum Science and Technology

11:05 - 11:25 am **Theory of Quantum**
Henry Lamm, PhD, Associate Scientist, Quantum Theory Dept., PPD

11:30 - 11:50 pm **Working with Faculty and Students at Magnet Systems Department**
Stoyan Stoynev, PhD, Scientist, Magnet Systems Dept., APSTD

11:50 - 12:10 pm **Quantum Science/Technology and Magnets Panel Session**
Donovan Tooke, Operations Specialist, Accelerator Operations Dept., AD
Doga Kurkcuoglu, PhD, Associate Scientist, Co-Design and Algorithms Dept., SQMS
Stoyan Stoynev, PhD, Scientist, Magnet Systems Dept., APSTD
Henry Lamm, PhD, Associate Scientist, Quantum Theory Dept., PPD
Tanay Roy, PhD, Associate Scientist, 3D Quantum Systems Dept., SQMS

12:15 - 12:30pm Break

12:30 - 1:30pm **Lunch & Deep Underground Neutrino Experiment Presentation**
Curia II-WH2 SW
Stephen Brice, PhD, Head, DUNE Coordination Office

1:45 - 2:00 pm **RENEW and FAIR Funding Opportunities**
Curia II, WH2 SW
Amanda Early, STEM Ambassador, OEDIA
Jacqueline Smith, PhD, AAAS Science & Technology Fellow, Department of Energy

2:15 - 2:55 pm **FACULTY: Proposal Writing and Collaboration** with Fermilab Researchers
WH15 Floor, Crossover S
Robert Ainsworth, PhD, Scientist, Beams Division, AD
Sudeshna Ganguly, PhD, Associate Scientist, Beams Division, AD
Tia Miceli, PhD, CompSci Researcher, Accelerator Complex Technology Division, AD
Stephen Brice, PhD, Head, Fermilab DUNE Coordination Office
Bo Jayatilaka, PhD, Senior Scientist, SCSSD
Angela Fava, PhD, Scientist, Neutrino Physics Division, PPD
Henry Lamm, PhD, Associate Scientist, Theory Division, PPD
Minerba Betancourt, PhD, Scientist, Neutrino Division, PPD
Nathan Saffold, PhD, Research Associate, Particle Astrophysics Division, PPD
Jeremiah Holzbauer, PhD, Senior Scientist, PIP-II Division, PIP-II
Daniel Bowring, PhD, Scientist, Quantum Division, SQMS

STUDENTS: Fermilab Summer Interns Meet & Greet with Fermilab Summer Interns
Comitium, WH2 SE

Adam Rouzky, Duke University, SIST
Adamo Mvuezolo, Kirkwood Community College, SIST
Albert K. Szewczyk, Harper College, CCI
Aya Labnine, SUNY at Binghamton, SIST
Brianna Dewey, University of Notre Dame, SIST
Grace M. Gibbins, University of Arizona, SULI
Jason K. Osei-tutu, Wilbur Wright College, CCI
Justin L. Wheeler, Carthage College, SULI
Kateryna Havryshchuk, Amherst College, SIST
Leopoldo J. Ruffolo, Marquette University, SULI
Lorenzo Unich, Italian Student Program, University of Naples Federico II
Matteo Marchisio Caprioglio, Italian Student Program, University of Turin
Nadia M. Talbi, University of Wisconsin-Madison, SIST
Samridhi Bhatia, University of Illinois at Urbana-Champaign, SIST

2:55 pm Board Shuttle to IARC
Wilson Hall (WH), Horseshoe

3:20 - 4:20 pm **Tours** *Close-toed, flat shoes MUST be worn for tour

Quantum Garage
IARC

Doga Kurkcuoglu, PhD, Associate Scientist, Co-Design and Algorithms Dept., SQMS

Material Science Lab (MSL)
Industrial Center Building

Akshay Murthy, PhD, Associate Scientist, Qubits and Materials Dept., SQMS

4:30 - 4:45 pm Break

4:45 - 5:25 pm **Meet & Greet - Fermilab Laboratory Resource Groups**
Wilson Hall (WH) Cafeteria

Aisha Ibrahim, Senior Engineer, fSWE
Andres F. Quintero Parra, Staff Engineer, HLF
Carly R. Kurr, Legal Operations Specialist, FACTs,
Chandler Lawrence, Computing Services Specialist, Veterans
Finley Novak, Staff Engineer, Spectrum
Genfa Wu, Senior Scientist, FAPA
Japheth Hayman, Engineer, AABA
Josephine Fazio, Computing Project Manager, WI
Josephine Paton, Research Associate, FACTs
Latasha Johnson, Procurement Manager, AABA
Lymarie Munoz, Environment, Safety & Health
Specialist, HLF
Miguel Gutierrez, Area Facilities Manager, Veterans
Mohammed Elrafih, Project Controls Manager, FYP
Pete Cholewinski, Compensation Analyst, Spectrum
Roshanda Spillers, Computing/IT Associate, FYP
Sudeshna Ganguly, Associate Scientist, FAPA
Valerie Higgins, Knowledge Distribution Group Leader, WI

AABA: African American / Black Association FACTs: Fermi Accessibility Communities FAPA: Fermi Asian Pacific Association fSWE: Fermilab Society of Women Engineers FYP: Fermilab Young Professionals HLF: Hispanic/Latino Forum Spectrum: LGBTQ+ Community WI: Women's Initiative

5:25 pm Departure to Hotel
Gather at Ground Floor in Wilson Hall (WH)

Dinner on Your Own: Attendees arrange own dinner and evening transportation

REMINDER: Hotel checkout, morning of Wednesday, August 7th. Bring luggage to OEDIA Office, WH15E.

Wednesday, August 7

7:30 - 8:00 am **Arrival at Fermilab Wilson Hall (WH)**
WH, 15E, OEDIA - Luggage Drop-off

8:20 - 8:35 am **Education and Public Engagement at Fermilab**
WH, Atrium - Gather in Cafeteria on West Side
Natalie Johnson, PhD, Head, Office of Education and Public Engagement (EPE)

8:40 - 8:55 am **Integrated Engineering Research Center (IERC) - Tour**
WH, Atrium - Gather near Security Desk in Atrium
Trevor Nichols, Senior Engineer, Electrical Engineering Dept., PPD

Fermilab Flagship Projects

Curia II-WH2 SW

9:00 - 9:20 am **Proton Improvement Plan II (PIP-II)**
Arden Warner, PhD, Senior Engineering Physicist, Proton Source Dept., AD

9:30 - 9:50 am **Compact Muon Solenoid Collaboration (CMS)**
Frank Chlebana, PhD, Senior Scientist, Collider Physics Division, PPD

10:00 - 10:20 am **Sustainability at Fermilab**
Curia II, WH2 SW
Catherine Hurley, Sustainability Manager, ISD
Alyssa Rodway, Environment, Safety & Health Specialist, ISD
Shivani Saikar, Senior Engineer, ISD

10:30 -10:45 am Coffee Break
WH2 Crossover

Office of Science Workforce Development Programs

Curia II-WH2 SW

11:00 - 11:20am **Visiting Faculty Program (VFP)**
Kathrine Laureto, Mechanical Engineer, AD & VFP Lead
Andy C. Y. Li, PhD, Applications Physicist, Quantum Algorithms & Theory Applications, ETD

11:30 - 11:50 pm **Science Undergraduate Laboratory Internship (SULI)**
Community College Internship (CCI)
Minerba Betancourt, PhD, Scientist, Neutrino Division, PPD & SULI Program Lead
Talia Saarinen, current SULI Intern
Terry Kim, past SULI Intern
Wes Winter, former CCI Intern

12:00 pm **Lunch & Workshop Evaluation** with OEDIA Staff
WH,15 Floor Crossover S

12:50 pm **Closing Remarks**
WH,15 Floor Crossover S

- 1:15 - 2:45 pm **Intern Poster Session** (Connect with potential Collaborators - **Orange Name Tags**)
 WH, Atrium
Andy C. Y. Li, PhD, Applications Physicist, Quantum Division, SQMS
Angela Fava, PhD, Scientist, Neutrino Physics Division, PPD
Catherine Hurley, BCE, Sustainability Manager, Infrastructure Services Division, ISD
Daniel Bowring, PhD, Scientist, Quantum Division, SQMS
Frank Chlebana, PhD, Senior Scientist, Collider Physics Division, PPD
Henry Lamm, PhD, Associate Scientist, Theory Division, PPD
Jeremiah Holzbauer, PhD, Senior Scientist, PIP-II Division, PIP-II
Kavin Ammigan, PhD, Senior Engineer, Beams Division, AD
Minerba Betancourt, PhD, Scientist, Neutrino Division, PPD
Robert Ainsworth, PhD, Scientist, Beams Division, AD
Sudeshna Ganguly, PhD, Associate Scientist, Beams Division, AD
Tia Miceli, PhD, CompSci Researcher, Accelerator Complex Technology Division, AD
- 3:00 pm **Workshop Close**
 WH, 15E Floor - Office of Equity, Diversity, Inclusion and Accessibility
 Collect Luggage
- 3:30 pm **Departure for O'Hare Airport**
 WH, Ground Floor - West Entry
 Board transportation to airport

AAAS	American Association for the Advancement of Science
AD	Accelerator Directorate
APSTD	Applied Physics and Superconducting Technology Directorate
CCI	Community College Internships (CCI)
DUNE	Deep Underground Neutrino Experiment
ESH	Environment, Safety and Health Division
ETD	Emerging Technologies Division
ISD	Infrastructure Services Division
OEDIA	Office of Equity, Diversity, Inclusion and Accessibility
PIP-II	Proton Improvement Plan-II
PPD	Particle Physics Directorate
SCSSD	Scientific Computing Systems and Services Division
SIST	Summer Internships in Science & Technology
SQMS	Superconducting Quantum Materials and Systems Center
SULI	Summer Undergraduate Laboratory Internship (DOE)
VFP	Visiting Faculty Program (DOE)