Closing the 54th Annual Users (Virtual) Meeting

Reddy Gandrajula and Sophie Middleton
2021 Users Meeting Chair and Deputy

August 5th, 2021
54th Fermilab Users (Virtual) Meeting
New Horizons of Our Community
August 2 - 6, 2021

Highlight leading-edge science, celebrate Fermilab’s achievements and look to our future as a community

Dynamic keynote address • Exciting talks • Future of HEP by Snowmass panel
Fun virtual poster session • Conversations on equity, diversity and inclusion

ALL community members (including non-Users) are welcome!
Please register as soon as possible at:

https://indico.fnal.gov/e/UAM2021
Thank you!

• We’ve had such a good time with you over the past few days!

• We hope with this virtual UM-2021, we accomplished in:
  • Bringing the community together (including employees, Users, young people etc. and make them all feel welcome)
  • Educate and train with experiment talks, Introductory-level talks, science communication, visas&immigration, Scientific careers: Paths and opportunities, Lab Resource Groups, Mental Health, keynote, Spotlight on the community, and tours
  • Foster collaboration (snowmass, networking)
  • Celebrate accomplishments (talks, awards, reports from UEC, Directorate, FSPA)
  • Have a good time (Virtual poster session, Celebrations, Festa Italiana)
Special thanks to (by no means exhaustive)

• Nigel Lockyer, Hema Ramamoorthi, Kate Gregory, Luciano Ristori, Greg Bock, Kevin Pitts, Joe Lykken, Amber M Kenney
• All division/deputy heads, spokespeople and others who advised & helped find speakers
• Joy Pomillo, Melody Saperston and all admin members(Melissa Ormond, Kathryn A Duerr )
• Griselda Lopez, Kim Pearce
• Sandra Charles, Jimmy McLeod, Jeomar Montelon, Laura Rogas
• **ALL our speakers, session chairs, poster presenters, and panelists**
• Glen Crawford, James Shank
• Adrienne McCue, Cortez Watkins, Alyssa Miller, Lorena Lobato Pardavila, Richie Diurba, Yun He, Amanda Early
• Marcelle Soares-Santos
• Jean L Reising, Elizabeth Sexton, Jon A Bakken, Farha Bhimji, Dawn M. Staszak, Heath B O’Connell, Keenan Newton, Margherita Vittone
• Valery Stanley, Alexander Dgebuadze
• Valerie Higgins, Meredith Lee, Frederique Pellemoine, Leo Aliaga, Alyssa Miller, Erica Snider, Jeny Teheran
• Brian Beckford, Indara Suarez, Jamie Antonelli, Lia Merminga
• URA: Marta Cehelsky, Ted Wackler, Lourdes Garcia-Ruiz
• Joel Butler, Tao Han, Bob Bernstein, Anadi Canepa, Jim Hirschauer, Tim Tait, Brenna Flaugher, Aida El-Khadra, Pedro Machado, Vladimir Shiltsev, Petra Merkel, Oliver Gutsche, Breese Quinn, Sara Simon, Josh Barrow
• Lynn Johnson, Diana Brandonisio, Kurt Riesselmann, Justine Dunn, Leah Hesla, Deb Sebastian, Lauren Biron
• Donna Iraci, John Kent, Paul Ellison
• FSPA Officers: Anna Hall, Maria Martinez-Casales, Ohana B. Rodrigues, Zachary Williams, Zubair Ahmad Dar
• Marco Mambelli, Donatella Torretta
Your 2020-2021 Users Executive Committee

Jonathan Asaadi
Ashley Back
Reddy Pratap Gandrajula
Ketino Kaadze
Manolis Kargiantoulakis
Sophie Middleton
UEC Chair 2020/21
UM Chair, QoL, EPE
GovRel Chair
EPE Chair, UM
UM Deputy

Monica Nunes
Isobel Ojalvo
Alexx Perloff
Aleena Rafique
Nadja Strobbe
Yuanyuan Zhang
UM, EPE
EPE Deputy, UM, QoL
Secretary & Webmaster
QoL Deputy
GovRel Deputy
QoL Chair
Mental Health 101: Let's Talk About it!

Peer Support Advocacy
Thanks to Marcelle for an excellent Keynote speech and sharing an inspiring personal story!

In Carajás, I learned my first physics concept during a field trip to the mine in preschool: propagation of waves.

It takes several seconds for the sound of an explosion to travel across that open-pit — my mind was blown!
Tell me about the best talk you’ve ever seen.

Immigrant Visas or “Green Cards”

- Immigrant Visa - path to permanent residence (two- or three-step process)
- Options depend on job, employee’s qualifications, employer’s involvement
- Each case is analyzed individually to determine the best strategy
ACDM Cosmology
- Expanding, flat universe that began in a hot, dense state
- Dominated by dark energy and dark matter

ACDM model describes our universe incredibly well... BUT it leaves many fundamental questions unanswered.
Panel: Spotlight on the community

Aleena Rafique
Reddy Pratap Gandrajula
Kim Pearce
Melissa Ormond
Donna Iraci
Paul Ellison
Creative Services
Ashley Back (he/h...) Ashley Back (he/him)

Sophie Middleton
Alexx Perloff
Zack Williams
Yuanyuan Zhang
Sophie Middleton
Zack Williams
Yuanyuan Zhang

Joel Butler
Maria Martinez-Casales
Noemi Rocco
Jessica Pudelek
Noemi Rocco
OVERVIEW

- Introduction to neutrino oscillation, sterile neutrinos, and Fermilab neutrino experiments
- MiniBooNE
- MINOS+
- Short Baseline Neutrino Program:
  - MicroBooNE status
  - SBN sensitivity projections
  - SBND installation status
  - ICARUS commissioning status & analysis plans

Note: I am a collaborator on SBND and ICARUS, but not the other experiments. Thank you to A. Aurisano, T. Carroll, W. Louis, D. Mendez, W. Van De Pontseele, F. Varanini, and G. Zeller for providing slides/plots for this presentation!
Snowmass 2021: The Community Planning Exercise
Tao Han
University of Pittsburgh
On behalf of the Snowmass Steering Group
Winners of the Users Meeting Poster Session

• First Place: Zhuowen Zhang (University of Chicago)
• Second Place: Elkins, Miranda (Iowa State University)
• Third Place: Emrys Peets (Stanford University, SLAC)

• Award Certificates and prizes will be sent to you soon!
• Special thanks to all our judges: Anna Hall, Ohana B. Rodrigues, Maria Martinez-Casales, Zachary Williams, Zubair Ahmad Dar
• And to Sophie Middleton and Jean L Reising for the majority of the work in organizing the virtual posters session
Thank you to our community

• You elected us to serve you, and it has been our pleasure to do so.

• Thank you to the Employees, Users, Contractors.

• Thank you for your attention and passion over the past few days. We’ve been so happy about the attendance and feedback.

• “New Horizons of Our Community” has been beautifully realized in all your talks, your presence, and your continued dedication to making our lab and our world a better place. Let’s keep doing the work and striving toward a better future.
Final Reminders

• Expert “excursions” virtual tours of LINAC accelerator/MINOS underground areas, Muon Campus areas and the Fermilab prairie. From 9:00 -11:00 am

• Festa Italiana tomorrow! Join us for an online pasta cooking class and social time! Link information will be emailed to all registrants. 4-7 PM classtime.

  Festa Italiana is returning in its virtual form for a second year!
  Note: Need to buy some ingredients for Festa and prepare some things before the class
  Connect via zoom and join the fun.
  We are delighted to welcome back “Al Dente - Pasta Artists” for a live cooking class.
  Join ahead of time to introduce yourself and greet new and old Fermilab's friends
  Stay after the class to show off your dish and to start dinner together.

• Send your pics to um2020pics@gmail.com: enjoying the meeting, or headshots for a collage of participants!

• Our UEC election will be soon, please consider joining us!

  Stay healthy, stay safe and take care of each other.