Dusting the Universe Conference Schedule

Sunday, March 3, 2019 - La Cocina & Dusty Monk
201 N Court Ave, Tucson, AZ 85701
5:00 - 7:00 pm Conference Welcome Reception

Monday, March 4, 2019 - ENR2 Room S107
8:00 - 9:00 Registration and Poster Setup
9:00 - 9:15 Introduction by Buell Januzzi and Announcements
9:15 - 10:30 Session 1 - Physics and Origins of Dust (Chair: Aigen Li)
  9:15  Bruce Draine - Invited Speaker
  9:45  Eli Dwek - The Cosmic Evolution of Dust
  10:00  Alec Hirschauer - Asymptotic Giant Branch Stars in the Low-Metallicity Galaxy NGC 6822
  10:15  Jeonghee Rho - Dust and Molecule Formation and Evolution in Supernova Ejecta
10:30 - 11:00 Coffee Break
11:00 - 12:30 Session 2 - Behavior of Dust (Chair: Karin Sandstrom)
  11:00  Ed Jenkins - Invited Speaker
  11:30  Brandon Hensley - A Unified Model of the Emission, Extinction, and Polarization of Interstellar Dust
  11:45  Julia Roman-Duval - Characterizing the Dust Abundance and Properties from the UV to the FIR
  12:00  Karl Gordon - Near- and Mid-Infrared Interstellar Dust Extinction Observations
12:15 - 1:30 Lunch Break
1:30 - 2:00 Behavior of Dust (continued)
  1:30  Xuejuan Yang - JWST and PAHs: Placing Unprecedented Constraints on the Chemical Structures of the Carriers of the Unidentified Infrared Emission Bands
  1:45  I-Da Chiang - The Variation of the Dust-to-Metals Ratio in Resolved Nearby Galaxies
2:00 - 3:00 Session 3 - Lifecycle of Dust (Chair: Karl Gordon)
  2:00  Svitlana Zhukovska - Invited Speaker
  2:30  Margaret Meixner - The Life Cycle of Dust in the Magellanic Clouds: Insights from Spitzer and Herschel
  2:45  Varsha Kulkarni - Observations of Element Depletions and Extinction Curves due to Dust in Distant Galaxies
3:00 - 3:30 Coffee Break
3:30 - 3:45 Lifecycle of Dust (continued)
  3:30  Chia-Yu Hu - Dust Destruction by Supernovae in Time-Dependent 3D Hydrodynamical Simulations
3:45 - 4:30 Session 4 - Dust in the Lab (Chair: Karl Gordon)
  3:45  Cornelia Jäger - Invited Speaker
Hongbin Ding - Characterization of Interstellar Dust Analogues in Laboratory Using the Broadband Terahertz Time-Domain Spectroscopy at Low Temperature

4:30 - 5:15 Discussion (Leaders: Bill Reach and Karin Sandstrom)

5:15 End of Day 1

Tuesday, March 5, 2019 - ENR2 Room S107

9:00 - 10:30 Session 1 - Dust to Intermediate Redshifts (Chair: Arjun Dey)
9:00 Alexandra Pope - Invited Speaker
9:30 Eric Murphy - Spinning Dust — New Detections of Anomalous Microwave Emission in Nearby Galaxies
9:45 Wiphu Rujopakarn - Smooth, Extended Cold Dust Distributions in z ~ 3 Galaxies
10:00 Matus Rybak - Resolving Dust and Gas Properties on <1kpc Scales in z~3 Dusty Galaxies
10:15 Greg Walth - Using Galaxy Clusters as Cosmic Telescopes to Explore the Properties of Distant Dusty, Star-Forming Galaxies

10:30 - 11:00 Coffee Break

11:00 - 12:15 Session 2 - Dust: AGN and Their Hosts (Chair: Anna Sajina)
11:00 - 11:30 Allison Kirkpatrick - Invited Speaker
11:30 - 11:45 Aigen Li - Are All Active Galactic Nuclei Born Equal? The Silicate Dust Mineralogy Perspective
11:45-12:00 Jianwei Lyu - Demystifying the Diverse IR SEDs of Type-1 AGNs from z~0 to z~6
12:00-12:15 Monique Aller - An Observational Investigation of Interstellar Silicate Dust Grains in Low- and Moderate-Redshift Galaxies Using Quasar Absorption Systems

12:15 - 12:30 Poster Session

12:30 - 1:45 Lunch Break

1:45 - 2:15 Dust: AGN and Their Hosts (continued)
1:45 Qiong Li - Dust Emission and Environment of The Most Distant Quasars at z~6
2:00 Erini Lambrides - Mid-Infrared Spectroscopic Evidence for AGN Heating Warm Molecular Gas and Dust

2:15 - 2:45 Session 3 - Dust in the Early Universe (Chair: Christina Williams)
2:15 Justin Spilker - Invited Speaker

2:45 - 3:15 Coffee Break

3:15 - 4:00 Dust in the Early Universe (continued)
3:15 Xiangcheng Ma - Dust Obscuration and Dust Emission in z~5 Star-Forming Galaxies
3:30 Jingzhe Ma - The Formation and Evolution of High-Redshift Dusty Galaxies
3:45 Denis Burgarella - What are the Physical Characteristics of Dust in LBGs at z~6?

4:00 - 4:45 Discussion (Leaders: Mark Dickinson and Stephanie Juneau)

4:45 End of Day 2
Wednesday, March 6, 2019 - ENR2 Room S107 and Desert Museum

9:00 - 10:15 Session 1 - Dust in Modeling (Chair: Denis Burgarella)
9:00 Cristina Popescu - Invited Speaker
9:30 Isabella Lamperti - Dust Properties of Nearby Galaxies from the JINGLE Survey Inferred from Hierarchical Bayesian SED Fitting
9:45 George Rieke - The Far-Infrared Emission of the First Massive Galaxies
10:00 Danny Dale - A Two-parameter Dust Model for Galaxies and AGN

10:15 - 10:30 Poster Session

10:30 - 11:00 Coffee Break

11:00 - 12:15 Session 2 - Dust in Simulations (Chair: Wiphu Rujopakarn)
11:00 Desika Narayanan - Invited Speaker
11:30 Qi Li - Dust Content in the Cosmological Simulation
11:45 Gergö Popping - Modeling the Dust Content of Galaxies Over Cosmic Time
12:00 Martin Glatzle - Transfer of Ionizing Radiation through Gas and Dust

12:15 - 1:00 Discussion (Leaders: Ben Weiner, Arjun Dey)

1:00 - 2:00 Boxed Lunch

2:00 Buses Depart to Desert Museum for Conference Outing and Dinner
   See separate schedule for details

Thursday, March 7, 2019 - ENR2 Room S107

9:00 - 10:45 Session 1 - Dust Attenuation/Extinction (Chair: Susan Kassin)
9:00 Naveen Reddy - Invited Speaker
9:30 Veronique Buat - Which Dust Attenuation Law(s) for Star-Forming Galaxies?
9:45 Geoff Clayton - Investigating Interstellar Dust in Local Group Galaxies with New UV Extinction Curves
10:00 Lea Hagen - Spatially Resolved UV Attenuation Curves with SOLV (Swift Observations of the Local Volume)
10:15 Biwei Jiang - Infrared Extinction Law and Very Large Dust Grains
10:30 Weichen Wang - Galaxy Inclination, the Dust Attenuation Law, and Dust Geometry at z~1.5

10:45 - 11:15 Coffee Break

11:15 - 12:15 Session 2 - Dust and the ISM (Chair: Dyas Utomo)
11:15 JD Smith - Invited Speaker
11:45 Jérémy Chastenet - The PAH Fraction in the Small and Large Magellanic Clouds at 10 pc Scale
12:00 Monica Relano - Metals and Dust Content Across the Disks of Nearby Galaxies

12:15 - 12:30 Group Photo

12:30 - 1:45 Lunch Break

1:45 - 2:30 Dust and the ISM (continued)
Matthew Smith - Dust, Gas and Star Formation in Andromeda
Jan Forbrich - Beyond the Milky Way: Resolved Dust Observations and CO X Factor Measurements of Individual Giant Molecular Clouds in the Andromeda Galaxy M31
Daizhong Liu - A3COSMOS: Systematic Biases and New Measurements of the Gas Evolution in Galaxies out to z~6

2:30 - 3:15 Session 3 - The Obscured Universe (Chair: Greg Walth)
Caitlin Casey - Invited Speaker
Jorge Zavala - Unveiling High-Redshift Dusty Star-Forming Galaxies Through 3mm Observations

3:15 - 3:45 Coffee Break

3:45 - 4:15 The Obscured Universe (continued)
Médéric Boquien - Dust and the Measurement of Star Formation in Galaxies
Tanio Diaz-Santos - The Multiple Merger Assembly of an Obscured Quasar at z=4.6

4:15 - 5:00 Discussion (Leaders: Rob Kennicutt and Irene Shivaei)

5:00 End of Day 4

Friday, March 8, 2019 - ENR2 Room S107

9:00 - 10:30 OST and Future Missions (Chair: Irene Shivaei)
Stacey Alberts - Dust with JWST/MIRI
Eiichi Egami - SPICA (Space Infrared Telescope for Cosmology and Astrophysics)
Caitlin Casey - ngVLA (Next Generation Very Large Array)
Dennis Zaritsky - The Giant Magellan Telescope and other ELTs

10:20 - 10:40 Coffee Break

10:40 - 11:30 OST and Future Missions (continued)
Margaret Meixner - Overview of the Origins Space Telescope
Lee Armus - Peering Through and Measuring Dust in Galaxies with The Origins Space Telescope

11:30 - 12:30 Discussion Panel (Members: Eiichi Egami, Rob Kennicutt, Alex Pope, George Rieke, Marcia Rieke, Dennis Zaritsky, Caitlin Casey)
Synergies between future ground- and space-based facilities, including OST, JWST, SPICA, ngVLA, and ELTs

12:30 End of Conference
**Poster Presentations**

Ivana Barisic - *A Novel Approach to Measure the Dust Attenuation law at z~1*

Arianna Brown - *Multiwavelength Case Studies on Herschel-Red Dusty Star Forming Galaxies at z~4-6*

Caleb Choban - *Modeling Dust Evolution in FIRE*

Christopher Clark - *An Empirical Determination of the Dust Mass Absorption Coefficient and its Variation Within Nearby Galaxies*

Alexander de la Vega - *The Role of Dust Laws in SED Fitting of Galaxies at Intermediate Redshift*

Luis Ho - *Testing the Effectiveness of AGN Feedback with Dust Measurements*

Thomas Lai - *All the PAHs: a Spitzer-AKARI Cross-Archival Spectroscopic Survey of Aromatic Emission in Galaxies*

Qi Li - *Probing Cosmic Dust of the Early Universe through High-Redshift Gamma-Ray Bursts*

Ajay Mishra - *Unifying the Interstellar Extinction and Elemental Abundances*

Masashi Nashimoto - *Can Amorphous Dusts Explain AME?*

Anna Sajina - *Galaxies, AGN and their Environments -- The Role of Wide Area Surveys*

Zhenzhen Shao - *Gray Extinction for Active Galactic Nuclei?*

Alyssa Sokol - *Tracing the SFRD and BHARD together: How Linked are BH Accretion and Stellar Mass Buildup?*

Fengwu Sun - *Dissecting an Extremely-Lensed Dusty Star-Forming Galaxy at z=4.7*

Dyas Utomo - *The Distribution of Dust Mass and Temperature in Local Group Galaxies*

Dyas Utomo - *A z=0 Multi-wavelength Galaxy Synthesis I: A WISE and GALEX Atlas of Local Galaxies*

Yuxi Wang - *The Dust Extinction Laws in the M31*

Benjamin Weiner - *Fitting galaxy infrared SEDs with single dust models from a library is biased, but composite models can reduce the problem*

Yanxie Xie - *The Star Formation Efficiency of Quasar Host Galaxies at Low Redshifts*

Petia Yanchulova Merica-Jones - *Measuring Dust Properties at Low Metallicity using Color-Magnitude Diagrams of Stars in the Southwest Bar of the Small Magellanic Cloud*

Haibo Yuan - *Discovery of Dust Disks and Halo in the Galaxy*