Sunday, June 28

4:30 PM  Registration
6:00 PM  Dinner

Monday, June 29

8:30 AM  Welcome  Meixner & Tielens
8:40 AM  PDRs: Their Prehistory and Possible Future Directions  David Hollenbach

Session 1: The Physics and Chemistry of PDRs  Chair: Michael Burton

9:20 AM  Stars, Cars, and PDRs: The physics of PDRs  Mark Wolfire
10:00 AM  Dust temperature fluctuations and surface processes: Impact on H₂ emission lines in PDRs  Emeric Bron
10:20 AM  Coffee break
10:50 AM  H₂ enhanced radiative grain alignment in IC63/IC59  B-G Andersson
11:10 AM  The chemistry of PDRs  Javier Goicoechea
11:40 AM  Photodissociation, chemistry, and isotope selection  Alan Heays
12:10 PM  Lunch

Session 2: Models of PDRs  Chair: Frank Bertoldi

2:00 PM  Models of PDRs: State of the art  Franck le Petit
2:40 PM  PDR model benchmark  Markus Roellig
3:10 PM  Testing the KOSMA-t 3D PDR code: The Orion Bar PDR  Silke Andree-Labsch
3:30 PM  Coffee break
4:00 PM  Molecular pillars in the sky and in the lab  Jave Kane
4:20 PM  PDRs vs XDRs vs CRDRs vs TDRs  Rowin Meijerink
4:50 PM  A benchmark of CO emission as molecular cloud mass indicator  László Szücs
5:10 PM  Gas-ice chemical interplay in interstellar clouds  Seyit Hocuk
5:30 PM  End of session
6:00 PM  Dinner
8-10 PM  Poster session and cash bar

Tuesday, June 30

Session 2: Models of PDRs, continued  Chair: Inga Kamp

8:30 AM  The role of PAHs in PDRs  Olivier Berne
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>9:00 AM</td>
<td>PAH emission in NGC2023: How subtle variations reveal sub-populations with different molecular structure and charge</td>
<td>Els Peeters</td>
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<tr>
<td>9:20 AM</td>
<td>Observational evidence of the evaporation of aromatic/aliphatic very small grains in the NGC 7023 PDR</td>
<td>Paolo Pilleri</td>
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Session 3: Observations of PDRs in the Galactic Environment

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<thead>
<tr>
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<tbody>
<tr>
<td>9:40 AM</td>
<td>Spitzer and Herschel observations of galactic PDRs</td>
<td>Asuncion Fuente</td>
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<td>10:10 AM</td>
<td>Coffee break</td>
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<tr>
<td>10:40 AM</td>
<td>Spectral mapping of galactic PDRs: Cooling and molecular diagnostics</td>
<td>Emilie Habart</td>
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<td>11:00 AM</td>
<td>PDR Observations: From Herschel to SOFIA</td>
<td>Juergen Stutzki</td>
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<td>11:30 AM</td>
<td>Near-infrared spectroscopy of galactic PDRs with AKARI</td>
<td>Takashi Onaka</td>
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<td>11:50 AM</td>
<td>Herschel PACS and SPIRE spectroscopy of the photodissociation regions associated with S 106 and IRAS 23133+6050</td>
<td>David Stock</td>
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<td>12:10 PM</td>
<td>Lunch</td>
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<td>1:30 PM</td>
<td>Panel Discussion: Charting the future: Critical observations, laboratory studies, &amp; model calculations</td>
<td>Moderator: Margaret Meixner. Panel: Frank Israel, Gary Melnick, Gordon Stacey, Amiel Sternberg, and Hans Zinnecker</td>
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Session 3: Observations of PDRs in the Galactic Environment, cont. Chair: Isabel Aleman

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<tr>
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<tbody>
<tr>
<td>2:30 PM</td>
<td>Linking laboratory and theoretical studies on molecular excitation with PDR observations</td>
<td>Laurent Wiesenfeld</td>
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<td>3:00 PM</td>
<td>Coffee break</td>
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<tr>
<td>3:30 PM</td>
<td>H₂ excitation and mapping in the Orion Bar with IGRINS</td>
<td>Kyle Kaplan</td>
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<td>3:50 PM</td>
<td>HI-to-H₂ Transitions in the Perseus Molecular Cloud</td>
<td>Shmuel Bialy</td>
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<td>4:10 PM</td>
<td>The carbon inventory in a cold, quiescent, filamentary molecular cloud</td>
<td>Michael Burton</td>
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<td>4:30 PM</td>
<td>Complex organics in the Horsehead PDR</td>
<td>Viviana Guzmán</td>
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<tr>
<td>4:50 PM</td>
<td>Water in photodissociation region</td>
<td>Gary Melnick</td>
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<tr>
<td>5:10 PM</td>
<td>End of session</td>
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<td>5:30 PM</td>
<td>Ranger led nature walk</td>
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<tr>
<td>6:15 PM</td>
<td>Dinner</td>
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Wednesday, July 1

Session 3: Observations of PDRs in the Galactic Environment, cont. Chair: Yvonne Pendleton

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<tr>
<th>Time</th>
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<th>Speaker</th>
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<tbody>
<tr>
<td>8:30 AM</td>
<td>PDRs in circumstellar media</td>
<td>Jeronimo Bernard-Salas</td>
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<tr>
<td>9:00 AM</td>
<td>The photochemistry of stellar outflows</td>
<td>Leen Decin</td>
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9:30 AM  The Herschel Planetary Nebula Survey (HerPlaNS): Molecules in the far-infrared spectra of planetary nebulae  Isabel Aleman

9:50 AM  The [CII] emission puzzle: Shocks or PDRs?  Nicola Schneider & Juergen Stutzki

10:10 AM  Coffee break  

10:40 AM  PDR Diagnostic diagrams: Guides to the underlying physics of FUV illuminated gas in galaxies  Michael Kaufman  

11:10 AM  A photodissociation region in HII region N55 of the LMC  Nasim Neelamkodan  

11:30 AM  Physical conditions of the warm molecular gas in the starforming region N159  Min-Young Lee  

11:50 PM  The magnetic field in photodissociation regions  Marta Alves  

12:10 PM  Lunch  

Session 4: PDRs, and Star and Planet Formation  Chair: Takashi Onaka  

2:00 PM  PDRs and Star formation  Simon Glover  

2:30 PM  PDRs and the structure of protoplanetary disks  Uma Gorti  

3:00 PM  Extreme PDRs and XDRs: A multi-wavelength view into protoplanetary disks  Inga Kamp  

3:35 PM  Coffee break  

4:05 PM  The evaporation of circumstellar disks, PDR models, and radiation fields in young star forming cluster  Fred Adams  

4:25 PM  Shocks and PDRs from young stellar objects with Herschel  Agatha Karska  

4:45 PM  Star formation near Sgr A*  Farhad Yusef-Zadeh  

5:05 PM  End of session  

5:30 PM  Drinks  

6:00 PM  Banquet  

Thursday, July 2  

Session 5: PDRs and the ISM of Galaxies  Chair:  

8:30 AM  Extragalactic PDRs: The influence of LyC production rates and their escape fractions on the ISM and IGM  Mike Shull  

9:10 AM  The origin of the CII line in the Milky Way  Jorge Pineda  

9:40 AM  Structure of dark molecular gas in the galaxy: I - A pilot survey for 18-cm OH near l = 105°, b = +1°  Ron Allen  

10:00 AM  Coffee break  


10:50 AM  "Dark" gas in isolated interstellar clouds  Bill Reach  

11:10 AM  Diffuse clouds as low density PDRs  Maryvonne Gerin  

11:40 AM  Chemical probes of turbulence in the diffuse medium: The TDR model  Benjamin Godard & Edith Falgarone  

12:00 PM  Lunch
Session 5: PDRs and the ISM of Galaxies, continued

Chair: Bill Reach

2:00 PM How we can constrain the transition from atomic to molecular hydrogen: A Planck-based approach to the "optically thick" HI 21 cm spectrum
Yasuo Fukui

2:30 PM Spatially resolved physical conditions of molecular gas: A zoom-in from circumnuclear region of M83 to Carina Nebula
Ronin Wu

2:50 PM PDRs in low metallicity environments
Amiel Sternberg

3:20 PM Coffee break

3:50 PM Tracing and characterizing PDRs in nearby galaxies
Vianney Lebouteiller

4:20 PM Young photodissociation complexes in NGC 6822: Stars and semi-resolved PDRs
Lynn Carlson

4:40 PM The Herschel Dwarf Galaxy Survey: Gas properties at low metallicity
Diane Cormier

5:00 PM PDRs and molecular gas at low-Metallicity in the Small Magellanic Cloud
Katie Jameson

5:20 PM End of the afternoon session

Friday, July 3

Session 6: PDRs in Starburst, (U)LIRG, and High-z Environments

Chair: Erick Young

8:30 AM Witnessing the effects of massive star formation in 30 Doradus of the LMC
Mélanie Chevance

8:50 AM Molecular gas in Luminous galaxies
Frank Israel

9:10 AM PDRs in starburst and (U)LIRG environments
Eckhard Sturm

9:50 AM Probing the star forming ISM in high-z quasars
Frank Bertoldi

10:10 AM Coffee break

10:40 AM Tracers of PDRs at high redshift
Gordon Stacey

11:20 AM HELLO-PDR: FIR lines from local and z=1-3 galaxies
Huan Yang

11:40 AM CH+(J=1-0) line detection in a high-z ultra-luminous galaxy SDP17b: The first probe of a massive turbulent halo
Edith Falgarone

12:00 PM Poster Prize Ceremony and Summary by SOC members

12:20 PM Closure

12:30 PM Lunch

Notes:

Breakfast is served between 7:30AM and 9:00 AM
Lunch is served between 12:00PM and 1:00 PM
Dinner is served between 6:00PM and 7:00 PM

The Registration Desk will be open on Sunday Between 4:30 PM and 6:00PM and Monday Morning, During the Coffee Break. For registration outside this time, please look for a LOC member.