

2009 Center for Chemistry of the Universe Workshop

May 26-29, 2009

NRAO Facility

Green Bank, West Virginia

Schedule of Sessions & Events

Tuesday, May 26, 2009		
5:00 – 7:00PM	Arrival and check-in; Poster set-up.	Residence Hall Lobby; Green Bank Science Center
7:00 – 9:00PM	Opening Reception.	Residence Hall Lounge
Wednesday, May 27, 2009		
8:00 – 9:00AM	Breakfast	Cafeteria
9:00 – 9:15AM	Welcome Karen O’Neil, NRAO – Green Bank	Jansky Lab Auditorium
9:15 – 9:45AM	The Green Bank Telescope – Overview, Operations, and Open Time Jay Lockman, NRAO – Green Bank	Jansky Lab Auditorium
9:45 – 10:30AM	“ H_3^+ : The Simplest Polyatomic Molecule in the Laboratory and the Interstellar Medium” Ben McCall, University of Illinois	Jansky Lab Auditorium
10:30 – 10:45AM	Coffee Break	Outside Jansky Lab Auditorium
10:45 – 11:30AM	“Investigating the Chemistry of the Universe: Combining the Power of Rotational Spectroscopy and Radio Astronomy” DeWayne Halfen, University of Arizona	Jansky Lab Auditorium
11:30 – 12:15PM	“New THz Spectroscopic Tools for Laboratory Astrochemistry” Susanna Widicus Weaver, Department of Chemistry, Emory University	Jansky Lab Auditorium
12:15 – 12:30PM	Follow-up / Discussion of Morning Sessions	Jansky Lab Auditorium
12:30 – 1:15PM	Lunch	Cafeteria
1:15 – 3:15PM	Tour of the GBT	Meet in Jansky Lab Lobby (or outside main entrance, weather permitting)
3:15 – 3:30PM	Coffee Break	Outside Jansky Lab Auditorium
3:30 – 4:15PM	“Formation of molecules on dust grains in simulated interstellar conditions” Gianfranco Vidali, Syracuse University	Jansky Lab Auditorium
4:15 – 5:00PM	“Complex processes in simple ices – the role of UV light” Karin Öberg, Leiden Observatory	Jansky Lab Auditorium
5:00 – 5:45PM	“From Clouds to Comets: Ices in Interstellar Environments” Erika Gibb, University of Missouri–St. Louis	Jansky Lab Auditorium
5:45 – 7:00PM	Dinner	Cafeteria
7:00 – 7:45PM	“Probing fundamental constant evolution with molecular spectroscopy” Nissim Kanekar, NRAO – Socorro	Jansky Lab Auditorium
7:45 – 8:30PM	“Clustered Low Mass Star Formation in the Ophiuchus Molecular Cloud” Rachel Friesen, NRAO/University of Victoria	Jansky Lab Auditorium
8:30 – 9:00PM	Follow-up / Discussion of Afternoon and Evening Sessions	Jansky Lab Auditorium
Thursday, May 28, 2009		
8:00 – 9:00AM	Breakfast	Cafeteria
9:00 – 9:45AM	“Interstellar Ion Chemistry – New Insights from Laboratory Experiments” Veronica Bierbaum, University of Colorado	Jansky Lab Auditorium
9:45 – 10:30AM	“Theoretical Modeling of Interstellar Chemistry” Steven Charnley, NASA Goddard Space Flight Center	Jansky Lab Auditorium

10:30 – 10:45AM	Coffee Break	Outside Jansky Lab Auditorium
10:45 – 11:30AM	“ <i>Interstellar carbon isotope fractionation</i> ” Andrew Markwick, University of Manchester	Jansky Lab Auditorium
11:30 – 12:15PM	“ <i>Pathways to chemical complexity in the ISM</i> ” Robin Garrod, Cornell University	Jansky Lab Auditorium
12:15 – 12:30PM	Follow-up / Discussion of Morning Sessions	Jansky Lab Auditorium
12:30 – 1:15PM	Lunch	Cafeteria
1:15 – 2:00PM	“ <i>Gas Phase Ionic Reactions: Rates and Products</i> ” Nigel Adams, University of Georgia	Jansky Lab Auditorium
2:00 – 2:45PM	“ <i>Reaction Dynamics within the Interstellar Medium</i> ” Brant Jones, University of Hawaii	Jansky Lab Auditorium
2:45 – 3:30PM	“ <i>Chemical Composition of Low-Mass Star-Forming Regions</i> ” Nami Sakai, The University of Tokyo	Jansky Lab Auditorium
3:30 – 3:45PM	Coffee Break	Outside Jansky Lab Auditorium
3:45 – 4:30PM	“ <i>A cm-wavelength search for molecular lines with Arecibo and the GBT</i> ” Robert Minchin, Arecibo Observatory/NAIC	Jansky Lab Auditorium
4:30 – 5:15PM	“ <i>Developing a Chemical Evolutionary Sequence for Starless Cores</i> ” Yancy Shirley, University of Arizona	Jansky Lab Auditorium
5:15 – 6:00PM	“ <i>ALMA and Synergies with the GBT in Interstellar Astrochemistry</i> ” Al Wootten, NRAO	Jansky Lab Auditorium
6:00 – 6:15PM	Closing Remarks Brooks Pate, University of Virginia	Jansky Lab Auditorium
6:15 – 6:30PM	Follow-up / Discussion of Afternoon Sessions	Jansky Lab Auditorium
6:30 – 8:30PM	Poster Viewing; Dinner Reception	Green Bank Science Center
8:30 – 10:00PM	Live Traditional Appalachian Music Band of Local Musicians	Green Bank Science Center Lobby (or Star Party Patio, weather permitting)
Friday, May 29, 2009		
8:00 – 8:30AM	Breakfast	Cafeteria
8:30 – 8:40AM	Preview of the day’s discussions Karen O’Neil, NRAO	Jansky Lab Auditorium
8:40 – 9:00AM	Science drivers for the WFPA Jay Lockman, NRAO	Jansky Lab Auditorium
9:00 – 9:20AM	Performance of the GBT at 3 mm Todd Hunter, NRAO	Jansky Lab Auditorium
9:20 – 10:30AM	Technical Challenges Discussion Amplifier development – Eric Bryerton, NRAO Receiver integration and packing – Rick Fisher, NRAO	Jansky Lab Auditorium
10:30 – 10:45AM	Coffee Break	Outside Jansky Lab Auditorium
10:45 – 12:30PM	Technical Challenges Discussion (continued) Data transmission – John Ford, NRAO Backends – John Ford, NRAO Data reduction – Bob Garwood, NRAO Data storage and archiving – Bob Garwood, NRAO	Jansky Lab Auditorium
12:30 – 2:30PM	Lunch/Breakout for Discussions	Jansky Lab Auditorium
2:30 – 3:30PM	Project Development Discussion – Funding, Timelines, Collaborations Karen O’Neil, NRAO	Jansky Lab Auditorium