8:00 (8). Lifecycle of cosmic carbon. A. Tielen
8:35 (9). Molecular content of carbon-rich evolved stars and the carbon balance from observations at all wavelengths. P. Chernicharo
9:10 (10). Formation of complex organics and carbonaceous grains in the outflow of carbon stars: A laboratory study. F. Salama
9:45 INTERMISSION
10:15 (11). Synthesis of pure and N-substituted cyclic hydrocarbons (e.g. pyrimidine) via gas-phase ion-molecule reactions. P.P. Bera, R. Peverati, M.P. Head-Gordon, T.J. Lee
10:50 (12). Computational rovibrational spectroscopy and applications to astrochemistry. R.C. Fortenberry, X. Huang, W. Morgan, R.A. Theis, T. Crawford, T.J. Lee

1:30 (67). Observations of organic molecules in carbon-rich proto-planetary nebulae and planetary nebulae. E. Peeters
2:05 (68). Dust formation in carbon stars. I. Cherchneff
2:40 (69). Ion chemistry of cyclic aromatics and interactions with polar molecules leading to the formation of complex organics in the gas phase and on ice grains. M. El-Shall
3:15 INTERMISSION
3:45 (70). Laboratory infrared spectroscopy of ‘hard-to-get’ ionized polyaromatics. J. Oomens
4:20 (71). Carbonaceous dust and fullerenes in evolved stars. J. Cami
4:45 (72). Quantum chemical studies of interstellar organic molecules: Formation mechanisms, spectroscopic signatures, and properties. T.J. Lee

Sunday Afternoon (90)
Organic Molecules in Carbon Star Outflows
Farid Salama, Presiding
1:30 (67). Observations of organic molecules in carbon-rich proto-planetary nebulae and planetary nebulae. E. Peeters
2:05 (68). Dust formation in carbon stars. I. Cherchneff
2:40 (69). Ion chemistry of cyclic aromatics and interactions with polar molecules leading to the formation of complex organics in the gas phase and on ice grains. M. El-Shall
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3:45 (70). Laboratory infrared spectroscopy of ‘hard-to-get’ ionized polyaromatics. J. Oomens
4:20 (71). Carbonaceous dust and fullerenes in evolved stars. J. Cami
4:45 (72). Quantum chemical studies of interstellar organic molecules: Formation mechanisms, spectroscopic signatures, and properties. T.J. Lee

Monday Morning (70)
Organic Molecules in the Diffuse Interstellar Medium
Jan Cami, Presiding
8:00 (118). Carbon bearing molecules in interstellar clouds. J. Krelowski
8:35 (119). Molecular laboratory astrophysics: About molecular transients and molecule formation under interstellar conditions. H. Linnartz
9:10 (120). Small Hydrocarbons in Diffuse Clouds and in Photon Dominated Regions. E. Roueff
9:45 INTERMISSION
10:15 (121). Low temperature formation of polycyclic aromatic hydrocarbons in the Interstellar medium via bimolecular neutral-neutral reactions. R. Kaiser

Monday Afternoon (65)
Organic Molecules in Dense Interstellar Clouds
Harold Linnartz, Presiding
1:30 (173). Review of the molecular complexity of organic material in the gas-phase ISM. S.N. Milam
2:05 (174). Global optimization and broadband analysis software for interstellar chemistry. S.L. Widicus Weaver, L. Zou, M. Rad, J. Sanders
2:40 (175). Molecular line lists of carbon-containing molecules for exoplanets and other hot bodies. J. Tennyson
3:15 INTERMISSION
3:45 (176). Observations of carbon in interstellar and circumstellar ices. A. Boogert
4:20 (177). Reliable abundances of extraterrestrial hydrocarbon ices: Interminable quest or end in sight? R.L. Hudson, P.A. Gerakines
4:45 (178). Optical properties of Titan haze analogs using photoacoustic and cavity ring-down spectroscopy. M.S. Ugelow, K.J. Zarzana, M.A. Tolbert
Wednesday Morning (65)

Organic Molecules in Dense Interstellar Clouds
Stefanie N. Milam, Presiding

8:00 (271). Organic molecules in ices and their release into the gas phase. E. Fayolle, K. Oberg, R.T. Garrod, E.F. van Dishoeck, M. Rajappan, M. Bertin, C. Romanzin, J. Fillion

8:35 (272). Ice chemistry in interstellar dense molecular clouds, protostellar disks, and comets. S.A. Sandford

9:10 (273). Like a fly and the fire - polycyclic aromatic hydrocarbons (PAHs) in icy environments: A historical perspective. M.S. Gudipati

9:45 INTERMISSION

10:15 (274). Theoretical studies of interstellar ice chemistry involving polycyclic aromatic hydrocarbons and other compounds. D.E. Woon


Wednesday Afternoon (55)

Organic Molecules in Dense Clouds and Star and Planet Forming Regions
Els Peeters, Presiding

1:30 (326). Complex organic molecules in star-forming regions: Sweet results from ALMA. E.F. van Dishoeck

2:05 (327). Polycyclic aromatic hydrocarbons as catalysts for interstellar molecular hydrogen formation. L. Hornekaer

2:40 (328). Modeling grain surface chemistry in dense molecular clouds. H. Cuppen, L. Karssemeej

3:15 INTERMISSION

3:45 (329). Formation of complex organic molecules in protoplanetary disks. T. Millar


4:45 (331). Tackling the theoretical anharmonic infrared spectra of polycyclic aromatic hydrocarbons. C. Mackie, A. Candian, X. Huang, T.J. Lee, A. Tielens

Thursday Morning

PAH-Related Processes
Herma Cuppen, Presiding


9:10 (565). Tying interstellar PAH emission spectra and (photo)chemistry to local physical conditions in the emission zones. C. Boersma

9:45 INTERMISSION

10:15 (566). Dehydrogenation of PAHs: First steps towards fullerenes in the ISM. P. Castellanos Nash, J. Zhen, A. Candian, H. Linnartz, A. Tielens

10:50 (567). Photochemical model of the top down formation of fullerenes in the interstellar medium. O. Berne, J. Montillaud, C. Joblin


This document was created in a three-column format for printing as a brochure to be distributed at the 249th National ACS Meeting. Its format was changed slightly for posting on the Astrochemistry Subdivision's web site (http://astro.phys-acs.org/).