THURSDAY AFTERNOON: SECTION 1
Sergio Ioppolo, Presiding

1:30 (659). Hunting for water in the atmospheres of exoplanets. M. Brogi
2:10 (660). Direct detection of water in the thermal emission spectra of hot jupiters. C. Buzard, D. Piskorz, G.A. Blake, C. Bender, B. Benneke, M. Line, A. Lockwood
2:30 (661). Sources of water and other volatiles to the terrestrial planets. C. Alexander
3:10 Intermission.
3:30 (662). Water on rocky planets: Atmospheres, oceans, and deep interiors. L. Schaefer
4:10 (663). Water mediated $^{35}$SO$_2$ chemistry in planetary atmospheres. V. Vaida, J.A. Kroll, B.N. Frandsen, H. Kjaergaard
4:30 (664). Confinement effects on water’s nuclear spin isomer conversion. C. Wespiser, P. Turgeon, J. Vermette, Y. Kalugina, P. Roy, P. Ayotte
5:10 Concluding Remarks.

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**SUNDAY AFTERNOON: SECTION 10**
Geoffrey A. Blake, Presiding

1:30 Introductory Remarks.
1:35 (72). Water megamaser emission in galaxies. V. Impellizzeri
2:10 (73). Water vapor in galaxies at high redshift. C. Yang
2:45 (74). Chemistry of water in our galaxy and beyond. S. Viti
3:20 Intermission.
3:40 (75). Influence of water on reactivity in and on icy grain surfaces. A. Lomberts
4:15 (76). Three things you probably didn’t know about amorphous solid water. M.R. McCoustra
4:50 (77).Rotational spectroscopy as a probe for gas-phase products of thermal- and photo-processed ices.
S.L. Widicus Weaver, K. Yocum, A. Jones, E. Todd, P.A. Gerakines, S.N. Milam

**MONDAY AFTERNOON: SECTION 10**
Edwin Bergin, Presiding

1:30 (189). Chemistry on mantles of water ice surrounding interstellar dust particles. E. Herbст
2:10 (190). Interactions and dynamics in interstellar ices. H. Cuppen
2:50 (191). Structure and composition of interstellar ice: Linking observations to laboratory studies via IR spectroscopy. J.A. Noble
3:30 Intermission.
4:30 (193). Catalytic role of water ice in the formation of prebiotic molecules. E. Congiu, T. Nguyen, F. Dulieu

**WEDNESDAY MORNING: SECTION 1**
Susana Widicus Weaver, Presiding

8:30 (321). GOTHAM and ARKHAM: First results from programs to explore aromatic chemistry at the earliest stages of star formation. B. McGuire
9:05 (322). Constraining the formation of interstellar methanol using isotopologues. O. Wilkins, B. Carroll, G.A. Blake
9:25 (323). Quantum chemical perspective of biomolecule synthesis via UV-irradiation of their precursors in astrophysical ices. P. Bera
10:20 Intermission.
10:40 (325). Theoretical study of the formation of glyconinitrole on icy grain mantles from the reaction of C+ and HCN. D.E. Woont

**WEDNESDAY AFTERNOON: SECTION 1**
Ryan C. Fortenberry, Presiding

1:30 (380). Interstellar water and organic molecules in protoplanetary disks. C. Favre
2:10 (381). Does the early planets get the water?. M. McClure, C. Dominik
2:50 (382). Water in planet formation: What do we know and what do we want to know?. E. Bergin
3:30 Intermission.
4:10 (384). Importance of zero-point energy for crystalline ice phases: Comparison of force fields and density functional theory. J. Meyer
4:45 (385). Water-ice: Quest to understand its physical forms and chemical processes. M.S. Gudipati

**THURSDAY MORNING: SECTION 1**
Matteo Brogi, Presiding

8:00 (601). The delivery and evolution of water within the solar system. G.L. Villanueva, S.N. Milam
8:35 (602). Water on solid bodies in our solar system. R. Klima, A. Rivkin, T.M. Orlando
9:10 (603). Chemical kinetic modeling of cometary ice processing. R.T. Garrod
9:45 Intermission.
10:05 (604). Making abiotic O2 from water in comets. R.C. Fortenberry
10:25 (605). TeraHertz time domain spectroscopy (THz TDS) of molecular ices. G.A. Blake, S. Ioppolo, M.A. Allodi, B. McGuire, G. Mead