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$C_2F_6O_2S_2$ $CF_3SO_2SCF_3$	**Trifluoromethanesulfonothioic acid trifluoromethyl ester** Structure by ED and ab initio calculations *S. L. Masters, D. A. Wann, H. E. Robertson, D. W. H. Rankin, A. Ben Altabef et al.* Manuscript in preparation
$C_3H_6Cl_3N$ $N(CH_2Cl)_3$	**Tris(chloromethyl)amine** Structure by ED and ab initio calculations, interpretation of Raman spectra *C. D. Rankine, S. J. Atkinson, M. R. Waterland, S. L. Masters, and D. A. Wann* Struct. Chem., **29** (2018) 803
$C_3H_{10}BN$ $C_3H_7N\text{-}BH_3$	**Azetidine-borane** Structure by GED and ab initio calculations *A. M. Ja'o, J. P. F. Nunes, C. D. Rankine, D. A. Wann, and S. L Masters* Manuscript in preparation
$C_4H_8S_2$ $(CH_2)_4S_2$	**1,2-Dithiane** Structure by ED, ab initio calculations, time-resolved electron diffraction and X-ray crystallography *C. D. Rankine, J. P. F. Nunes, and D. A. Wann* Manuscript in preparation
$C_4H_{12}BN$ $C_4H_9N\text{-}BH_3$	**Pyrrolidine-borane** Structure by GED and ab initio calculations *A. M. Ja'o, J. P. F. Nunes, C. D. Rankine, D. A. Wann, and S. L Masters* Manuscript in preparation
$C_5H_{14}BN$ $C_5H_{11}N\text{-}BH_3$	**Piperidine-borane** Structure by GED and ab initio calculations *A. M. Ja'o, J. P. F. Nunes, C. D. Rankine, D. A. Wann, and S. L Masters* Manuscript in preparation
$C_7H_3F_6N_2$ $(CF_3)_2NC_5H_3$	**2,5-Tris(trifluoromethyl)pyridine** Structure by ED, X-ray and ab initio calculations *T. W. B. Lock Feixas, C. D. Rankine, and D. A. Wann.* Manuscript in preparation
$C_9H_{10}N_2$ $(CH_3)_2NC_6H_4CN$	**4-(Dimethylamino)benzonitrile** Structure by ED and ab initio calculations, and apparatus development *C. D. Rankine, J. P. F. Nunes, T. W. B. Lock Feixas, S. Young, and D. A. Wann.* J. Phys. Chem. A, **122** (2018) 5656
$C_{10}H_{10}Fe$ $(C_5H_5)_2Fe$	**Ferrocene** Structure redetermined by ED and high-level ab initio calculations *N. Fey, J. N. Lynam, C. Nataro, C. D. Rankine, D. P. Tew, and D. A. Wann.* Manuscript in preparation

closo-$_1$,2-(EH)$_2$-$_1$,2-$C_2B_{10}H_{10}$(E=S,Se)	**Icosahedral carbaboranes with peripheral hydrogen-chalcogenide functions** Semi-experimental equilibrium molecular structures by QC and GED *T. Baše, J. Holub, J. Fanfrlík, D. Hnyk, P. D. Lane, D. A. Wann, Yu. V. Vishnevskiy, D. S. Tikhonov, C. G. Reuter, and N. W. Mitzel* Chem. Eur. J. (2019) in press.
	Aziridine, Azetidine, Pyrrolidine, Piperidine, and Morpholine Borane, and Piperazine Diborane Structure by GED and ab initio calculations *A. M. Ja'o, J. P. F. Nunes, C. D. Rankine, D. A. Wann, and S. L Masters* Manuscript in preparation