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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_2H_2O $C(H_2)CO$	**Ketene** Structure by VHT-GED generation of pyrolysis products *S. J. Atkinson, R. Noble-Eddy, and S. L. Masters* J. Phys. Chem. A, **120** (2016) 2041
$C_2H_4O_2$ $CH_3C(O)OH$	**Acetic acid** Structure by VHT-GED generation of pyrolysis products *S. J. Atkinson, R. Noble-Eddy, and S. L. Masters* J. Phys. Chem. A, **120** (2016) 2041
$C_3H_6NCl_3$ $N(CH_2Cl)_3$	**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* Manuscript in preparation
$C_4H_6O_3$ $CH_3C(O)OC(O)CH_3$	**Acetic anhydride** Structure by VHT-GED generation of pyrolysis products *S. J. Atkinson, R. Noble-Eddy, and S. L. Masters* J. Phys. Chem. A, **120** (2016) 2041
$C_6H_8O_4$	**2,2-Dimethyl-1,3-dioxane-4,6-dione (Meldrum's Acid)** Structure by GED and ab initio calculations *S. J. Atkinson and S. L. Masters* Manuscript in preparation
C_7H_7 $C_6H_5CH_2$.	**Benzyl radical** Structure by VHT-GED generation of pyrolysis products *R. Noble-Eddy, B. H. C. Wilson, and S. L. Masters* Manuscript in preparation
$C_7H_{16}Cl_3PSi$ $(tBu)(iPr)PSiCl_3$	**(Tert-butyl)(iso-propyl)(trichlorosilyl)phosphine** Structure by GED, UCONGA and ab initio / DFT methods *I. Wagner, E. Seppälä, H. E. Robertson W.-W. du Mont, and S. L. Masters* Manuscript in preparation
$C_{12}H_{36}P_2Si_4$ $P_2(SiMe_3)_4$	**1,1,2,2-Tetrakis(trimethylsilyl)diphosphane** Structure by GED, UCONGA and ab initio / DFT methods *A. P. Flanagan, H. Humphrey-Taylor, N. R. Gunby, H. E. Robertson, and S. L. Masters* Manuscript complete
$C_{14}H_{14}O_2S$ $(C_6H_5CH_2)_2SO_2$	**Dibenzyl sulfone** Structure by GED, UCONGA and ab initio / DFT methods *R. Noble-Eddy, B. H. C. Wilson, and S. L. Masters* Manuscript in preparation
	Hexakis(trimethylsilyl)disilane

$C_{18}H_{54}Si_8$ $Si_2(SiMe_3)_6$	Vibrational spectra and structure by GED and ab initio calculations *K. Hassler, H. E. Robertson, S. L. Masters et al.* Manuscript in preparation
	Apparatus development York time-averaged electron diffractometer *M. H. P. Ardebili, R. S. Fender, M. A. D. Fluendy, S. A. Hayes, P. D. Lane, S. L. Masters, R. J. Mawhorter, J. P. F. Nunes, P. Papathomas, D. W. H. Rankin, C. D. Rankine, D. A. Wann, and S. Young* Manuscript in preparation
	Method development Universal Conformer Generation and Analysis (UCONGA) *N. R. Gunby, S. L. Masters, and D. L. Crittenden* Manuscript complete