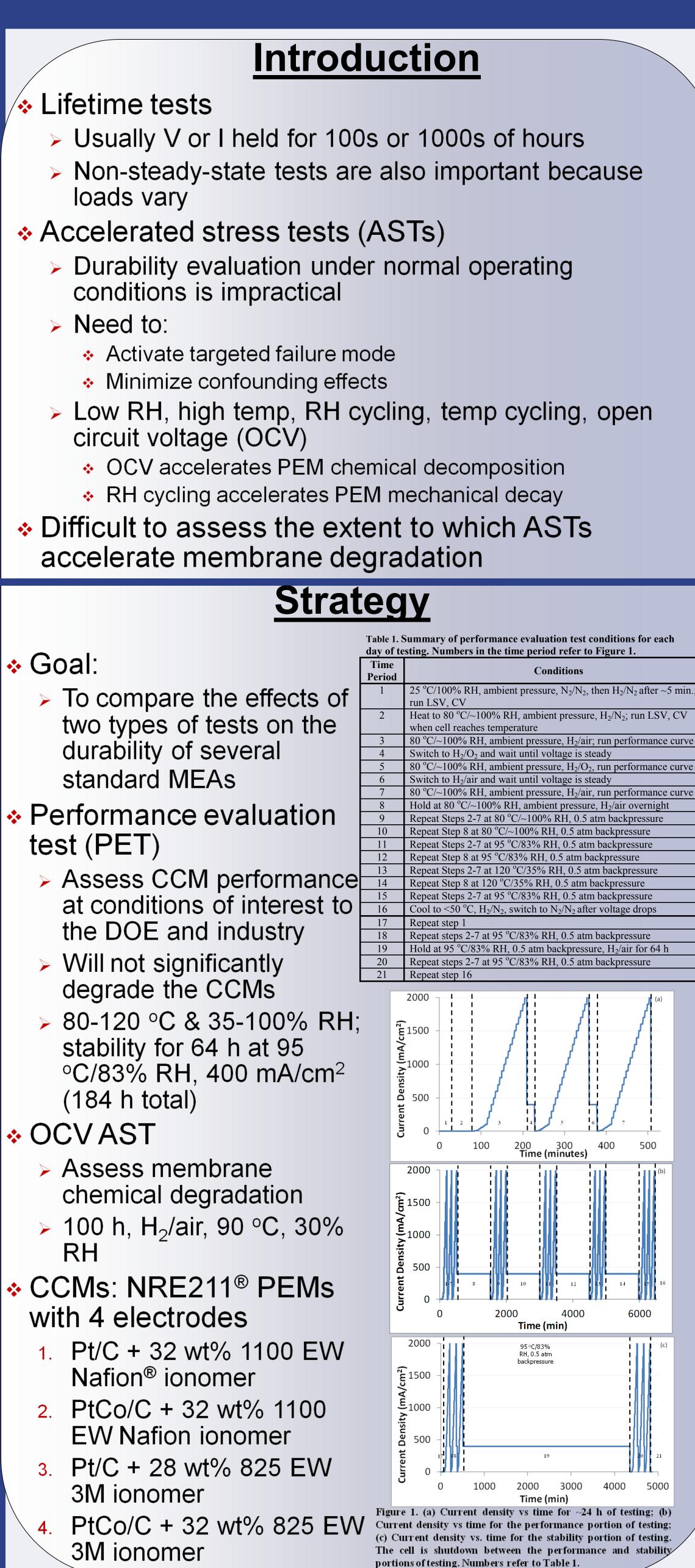
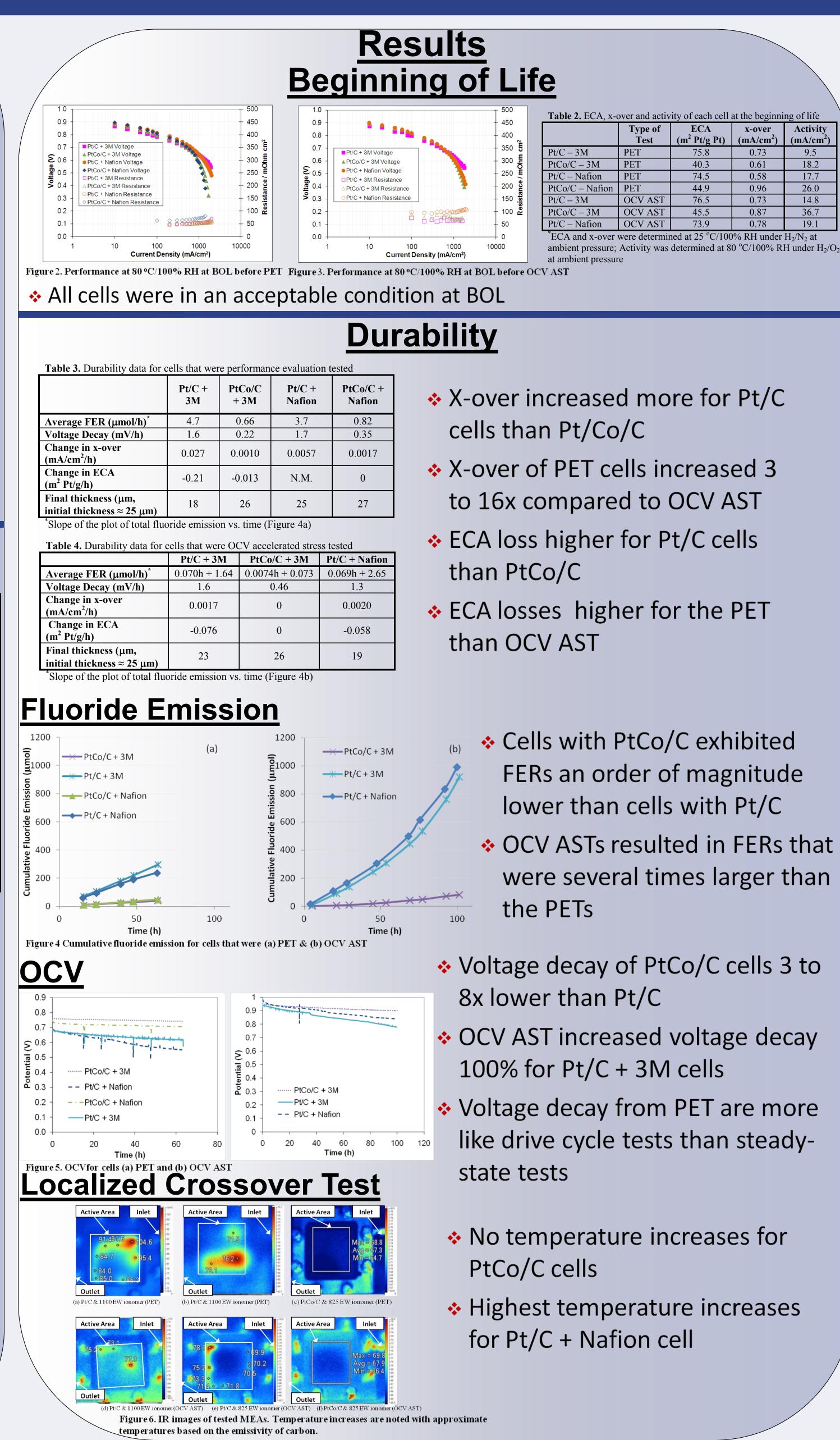


# **Comparison of Proton Exchange Membranes Degradation Rates Between Accelerated and Performance Tests**



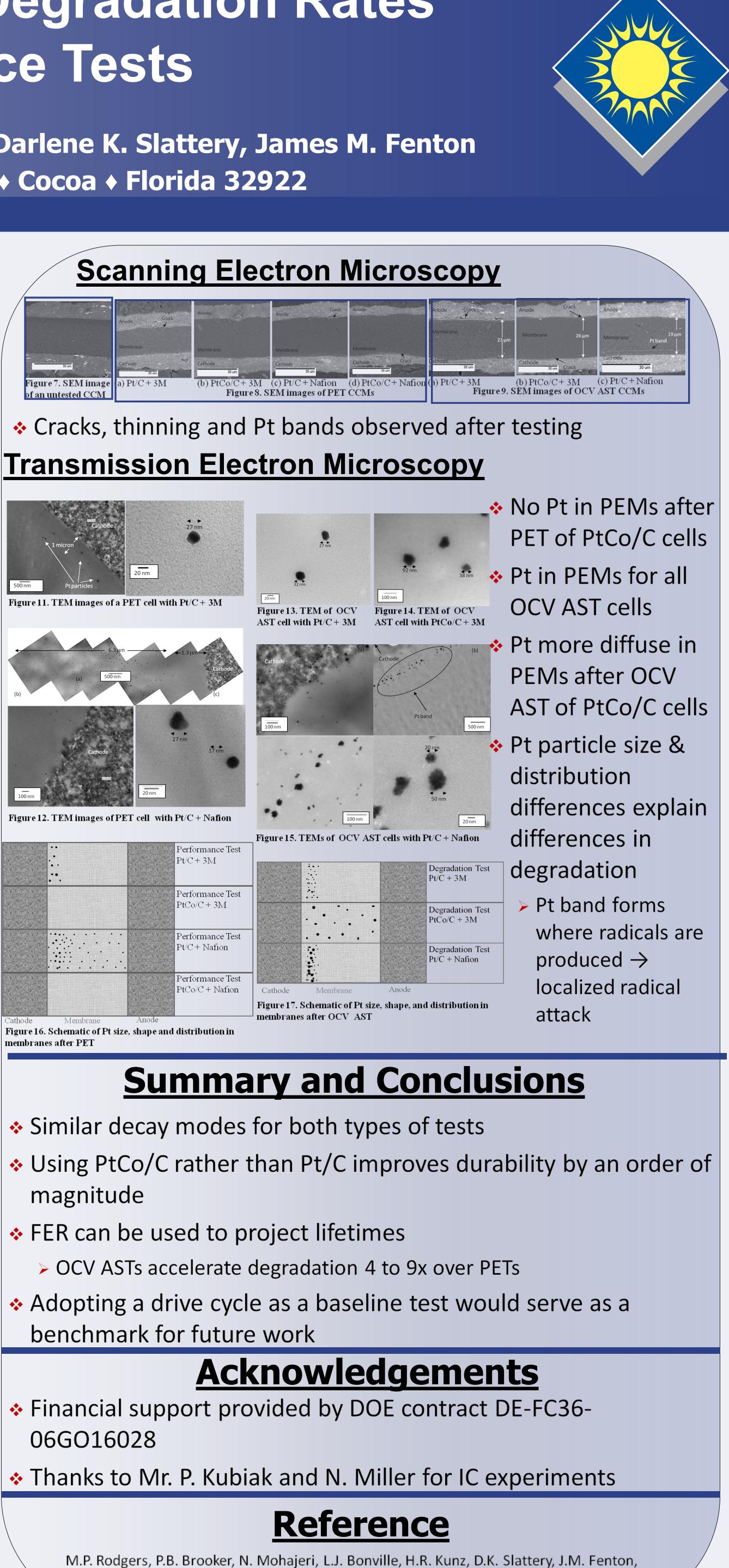
Marianne P. Rodgers, R. Paul Brooker, Nahid Mohajeri, Leonard J. Bonville, H. Russell Kunz, Darlene K. Slattery, James M. Fenton University of Central Florida—Florida Solar Energy Center + 1679 Clearlake Rd + Cocoa + Florida 32922

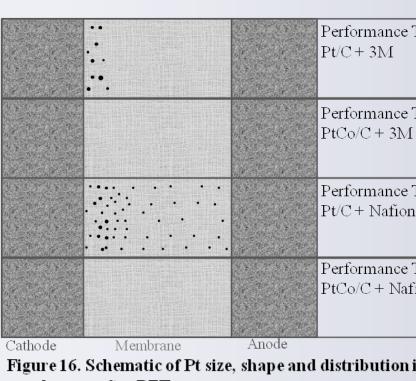


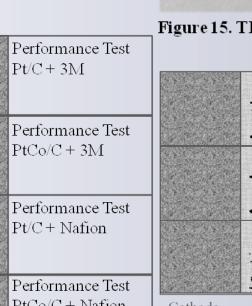
nd activity of each cell at the beginning of life				
pe of 'est	ECA (m <sup>2</sup> Pt/g Pt)	x-over (mA/cm <sup>2</sup> )	Activity (mA/cm <sup>2</sup> )	
	75.8	0.73	9.5	
	40.3	0.61	18.2	
	74.5	0.58	17.7	
	44.9	0.96	26.0	
/ AST	76.5	0.73	14.8	
/ AST	45.5	0.87	36.7	
/ AST	73.9	0.78	19.1	
letermined at 25 °C/100% RH under $H_2/N_2$ at ity was determined at 80 °C/100% RH under $H_2/O_2$				

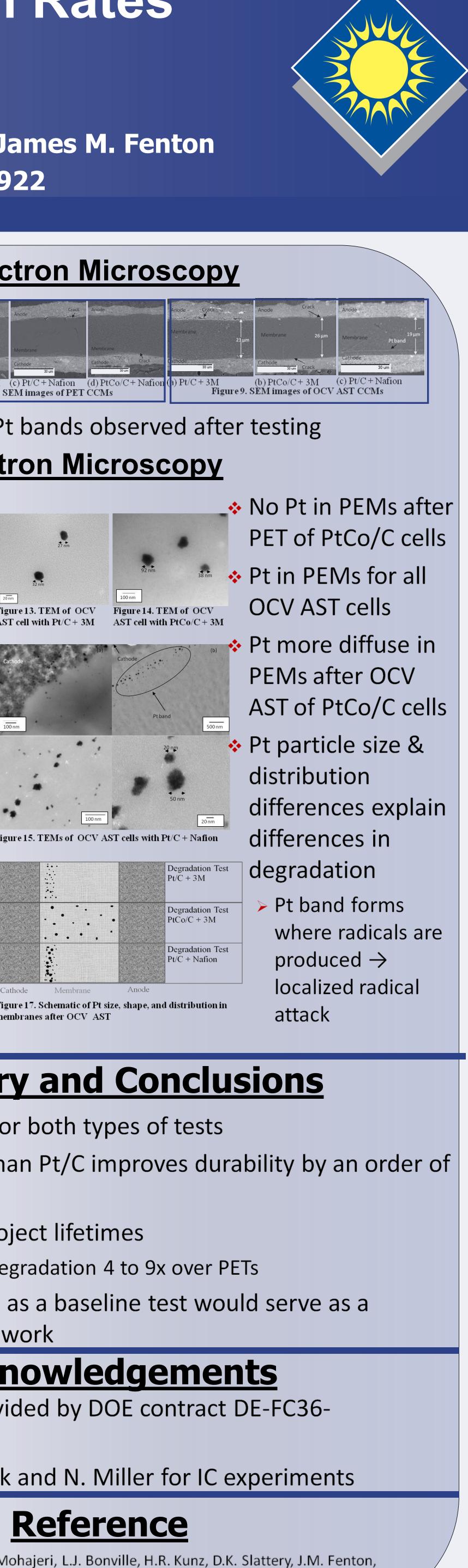
FERs an order of magnitude

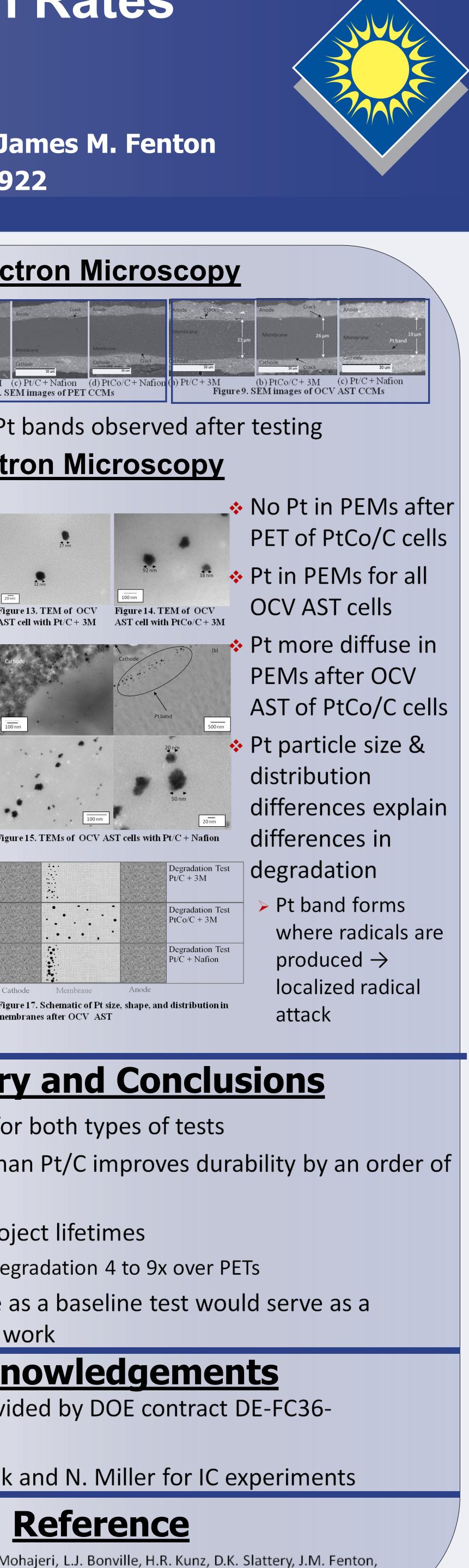
were several times larger than

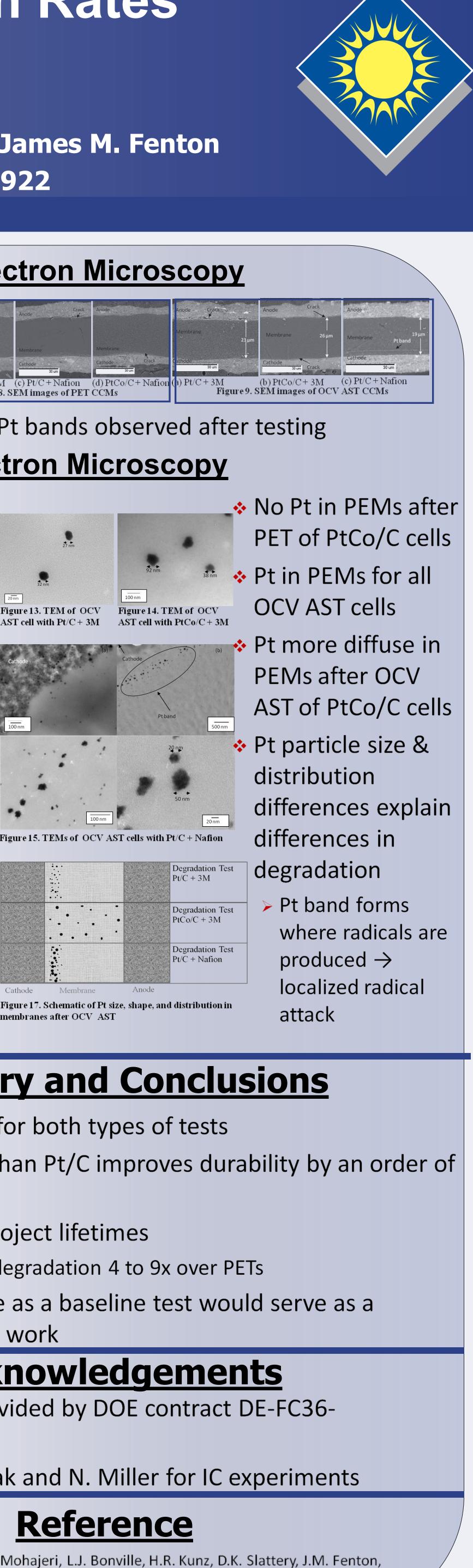












Verification of the correlation between membrane/MEA degradation rate from accelerated and lifetime testing, Journal of the Electrochemical Society, 159(7), F338-F352, 2012.