2014 HPVC East Results

			Rose-Hulman Institute of Technology	University of Toronto	Franklin W Olin College of Engineering	Chandigarh University	Union College	Grove City College	Kansas State University	Instituto Tecnologico de Morelia	La Tourneau University	National Institute of Technology Rourkela	South Dakota School of Mines and Technology	Texas A&M University Kingsville	The University of Alabama	Universidad de Puerto Rico, Recinto de Mayagüez	University of Missouri-Kansas City	University of North Carolina at Charlotte	East Carolina University	Daniel Webster College	Howard University	Missouri University of Science & Technology	Cairo University	University of Ontario	University of Wisconsin-Madison	The College of New Jersey	University of Central Florida	University of Florida	University of Southern Indiana	University of North Texas	Ohio Northern University	Arkansas State University	Ferris State	Mississippi State University	Southern Illinois University Edwardsville	University of Kansas	University of Wisconsin Milwaukee	Southern Polytechnic S
			Namazu	Valkyrie	Cheryl	Faith	Chester's Chariot	Grove City College HPV	Dorothy	ITM ANDORA	LETU HPV	Blue Streak	Hashtocker Human Power	Wren Hop Fly	Alabama Crimson Cruiser	Velocd	UMKC HPV	BRBS-MKRX-14	Black Pearl	(BYOB)	Andrew Veal JEMS	Baseline	Cairo University HPV	UOIT 1	Udder Domination	TOIU VeloChaptors	Knightrike	AccelerCutter	Quetzus II	Eagle Cycling Innovations	Beasty Racing	Red Wolves	Aero-steam	MSU HPV	Cougars	Kansas HPV	Blue	SPSU Hornets	
Vehicle Count = 36	**№**		**1**	**3**	**4**	**6**	**7**	**8**	**9**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**21**	**22**	**23**	**24**	**25**	**27**	**36**	**46**	**51**	**53**	**57**	**67**	**90**	**5**	**10**	**40**	**45**	**65**	**81**	**95**	
Design Event																																							
General	**5**	**Evaluated based on report**	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4.5	5	4.5	4	5	5	5	5	5	5	5	5	5	5	0	0	4	5	0	4	4	0
Design	**15**	**Evaluated based on report and update**	12.375	11	10.25	10.375	8.5	11.875	10.5	6	6.125	8.5	8.625	9.25	10.625	11.75	9.375	9.875	6.875	7	9.375	13.25	8.875	7.625	11.25	10.375	11.5	9.75	7.125	8.5	11.25	0	0	8	5.875	0	8.875	5.375	0
Analysis	**25**	**Evaluated based on report and update**	21.125	16.375	20.25	16.375	17.625	11	14.5	14.75	3	14.5	11.75	15.5	13.5	19.375	18.125	10.75	6.75	12.75	12.375	20	10.25	16.625	11.125	16.5	20.25	17	14	7	18.375	0	0	1	9.25	0	6.5	6.875	0
Testing	**25**	**Evaluated based on report and update**	20.5	18.125	18.25	9.25	14.625	15.25	12.375	4.25	7.625	4.375	3.75	8.875	10.5	8	12.375	2.125	8.875	10	3.875	13.75	6.125	6.5	7	15.75	15.125	11	8.625	7.375	11.75	0	0	8.375	2	0	6.125	5.875	0
Safety	**20**	**Evaluated based on report and presentation**	20	15.5	17	17.5	20	17	18	17	10.5	11	11.5	17	20	17	18.5	14	10	13.5	18	19	8	2	12.5	19	18.5	18	16	11	19.5	0	0	14	18.5	0	16	14.5	0
Aesthetics	**10**	**Evaluated based on presentation**	9	3	9	5	6.5	6.5	8.5	6.5	3	2	4	5	7	3.5	4	4	2	3.5	4	10	1	0	8	7	10	8.5	6.5	2.5	8	0	0	5	4	0	5	5.5	0
Design Event - Total	**100**		88.00	69.00	79.75	60.96	72.25	63.96	68.88	53.50	35.25	45.38	44.63	60.63	66.63	64.63	67.38	45.25	39.50	51.25	51.63	77.76	39.25	32.47	54.88	73.63	80.38	66.48	57.25	41.38	73.88	0.00	0.00	3.23	33.92	0.00	1.86	1.69	0.00
Report content largely non-original	100%																																						
Late Report Submission (per day)	4%					4%		4%														4%		4%				4%						92%	24%		96%	96%	
Late or Absent for Static Judging or Safety Check	10%																							10%															
Over Page Limit (per page)	3%																																						
Report Does Not Conform to Outline	10%																																						
Design - Rank			**1**	**8**	**3**	**15**	**7**	**14**	**9**	**19**	**28**	**22**	**24**	**16**	**11**	**13**	**10**	**23**	**26**	**21**	**20**	**4**	**27**	**30**	**18**	**6**	**2**	**12**	**17**	**25**	**5**	**34**	**34**	**31**	**29**	**34**	**32**	**33**	**34**
Innovation Event																																							
Deign	**10**	**Evaluated based on report**	8.875	8.75	6.375	7.125	7	9.625	8.5	0	0	4.125	6.625	4.375	5.625	7.375	0	9.25	4.875	0	6.25	9	0	0	0	6.5	9	9.125	6.5	0	8.875	0	0	0	0	0	6.875	0	0
Concept Evaluation	**7**	**Evaluated based on report**	5.75	4.75	2.5	3	1.375	5.125	1.375	0	0	0.5	0.5	2.5	3.75	3	0	1.75	2.125	0	2.25	2.875	0	0	0	3.5	4.25	3.75	1.25	0	3.375	0	0	0	0	0	3.75	0	0
Learnings	**7**	**Evaluated based on report and presentation**	3.125	2.5	1.5	3	0	1.25	2.25	0	0	0.75	2.5	0.75	2.375	3.5	0	1.75	0.5	0	1.5	1.625	0	0	0	1.75	3.875	1.375	1.625	0	2.875	0	0	0	0	0	0	0	0
Execution	**6**	**Evaluated based on presentation**	3.75	4.25	4.25	3.125	3.25	4.25	3.375	0	0	1	3.75	2	3.25	4.75	0	4.875	2.25	0	1.625	3.75	0	0	0	3.5	5.625	4.125	3.25	0	4.75	0	0	0	0	0	0	0	0
Bonus	**1**	**Evaluated based on report**			1		1		1												1					1	1	1	1											
Innovation Event - Total	**31**		21.50	20.25	15.63	16.25	12.12	18.83	16.50	0.00	0.00	0.00	13.38	9.63	15.00	18.63	0.00	17.63	9.75	0.00	12.63	17.25	0.00	0.00	0.00	16.25	23.75	18.60	13.63	0.00	19.08	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00
Report content largely non-original	100%																																						
Late Report Submission (per day)	4%							4.0%				100.0%																4.0%									96.0%		
Late for Presentation	10%																																						
Over Page Limit (per page)	3%							3.0%																															
Report not stand alone document	4%						4.0%																								4.0%								
Report Does Not Conform to Outline	10%																																						
Innovation - Rank			**2**	**3**	**13**	**11**	**18**	**5**	**10**	**22**	**22**	**22**	**16**	**20**	**14**	**6**	**22**	**8**	**19**	**22**	**17**	**9**	**22**	**22**	**22**	**11**	**1**	**7**	**15**	**22**	**4**	**22**	**22**	**22**	**22**	**22**	**21**	**22**	**22**
Women's Speed Event - Total	**12.5**		3.1	3.0	10.5	0.0	4.9	2.4	8.5	6.5	7.8	0.0	4.2	6.5	6.0	4.1	11.5	5.4	5.4	7.1	7.1	8.5	0.0	0.0	1.5	6.0	12.5	7.1	7.1	0.0	6.5	0.0	0.0	0.0	7.8	0.0	9.5	6.5	0.0
Fastest Non-Qualifying Time (s)	56.99		109.46	112.73	41.61	9999.00	69.10	145.07	53.78	49.54	48.42	9999.00	81.92	55.32	56.99	84.28	36.38	63.23	63.10	53.17	46.91	42.57	9999.00	9999.00	235.33	57.30	33.61	45.20	49.41	9999.00	56.42	9999.00	9999.00	9999.00	46.32	9999.00	47.53	51.55	9999.00
Women's Speed- Rank			**24**	**25**	**3**	**28**	**21**	**26**	**5**	**13**	**7**	**28**	**22**	**13**	**17**	**23**	**2**	**20**	**19**	**9**	**9**	**5**	**28**	**28**	**27**	**18**	**1**	**9**	**9**	**28**	**13**	**28**	**28**	**28**	**7**	**28**	**4**	**13**	**28**
Men's Speed Event - Total	**12.5**		8.5	10.5	9.5	6.0	6.5	7.1	7.8	6.5	2.3	4.4	5.8	5.4	5.7	3.5	8.5	5.6	5.0	7.1	6.5	11.5	0.0	0.0	5.5	5.1	12.5	7.1	6.0	0.0	7.8	0.0	0.0	0.0	4.5	0.0	7.1	6.5	0.0
Fastest Non-Qualifying Time (s)	42.83		32.30	37.95	33.69	42.86	41.75	67.97	37.05	42.77	113.81	57.94	44.39	47.94	44.72	72.39	33.27	46.05	51.52	41.60	44.05	36.08	9999.00	9999.00	46.72	50.09	29.36	38.33	42.83	9999.00	36.02	9999.00	9999.00	9999.00	56.81	9999.00	37.05	42.28	9999.00
Men's Speed - Rank			**5**	**3**	**4**	**18**	**13**	**9**	**7**	**13**	**29**	**27**	**19**	**23**	**20**	**28**	**5**	**21**	**25**	**9**	**13**	**2**	**30**	**30**	**22**	**24**	**1**	**9**	**17**	**30**	**7**	**30**	**30**	**30**	**26**	**30**	**9**	**13**	**30**
Endurance Event - Total	**25**		18.3	17.4	15.7	14.0	21.0	14.7	18.9	17.5	14.1	9.8	19.5	14.1	13.8	10.0	17.5	16.8	11.5	20.3	11.5	13.1	1.4	0.0	12.1	13.8	25.0	16.6	16.4	0.0	19.8	0.0	0.0	0.0	20.8	0.0	3.4	14.5	0.0
raw score			47.29	45.00	40.75	36.23	54.44	38.17	48.81	45.40	36.52	25.27	50.38	36.53	35.67	25.77	45.40	43.54	29.78	52.57	29.72	33.79	3.75	0.00	31.39	35.67	64.70	43.07	42.56	0.00	51.12	0.00	0.00	0.00	53.95	0.00	8.88	37.56	0.00
Laps Completed			26.00	24.00	22.00	20.00	29.00	24.00	26.00	25.00	20.00	14.00	27.00	20.00	19.00	15.00	25.00	24.00	17.00	28.00	16.00	18.00	2.00	0.00	17.00	19.00	35.00	24.00	23.00	0.00	28.00	0.00	0.00	0.00	29.00	0.00	5.00	20.00	0.00
Finish time (hr)			2.5472	2.7653	2.7653	2.5258	2.5622	2.7286	2.5472	2.5694	2.5819	2.5	2.5456	2.5472	2.5381	2.6067	2.5733	2.5261	2.5908	2.5275	2.6058	2.5458	2.7617	2.5	2.615	2.5572	2.5186	2.5811	2.5689	2.5	2.5244	2.5	2.5	2.5	2.5028	2.5	2.5	2.5019	2.5
Lap Length (km)	1.850																																						
Total Distance Penalty (km)			1.5	0	0.5	1.3	0	1.2	0	1.5	1	1	0.3	1	0	0.5	1.5	1.5	2.1	0	0.3	0	0	0	0.5	0	1	0.1	0.6	0	0.5	0	0	0	0.5	0	0.5	0	0
Laps Minus Lap Violations			26.00	24.00	22.00	20.00	29.00	21.00	26.00	25.00	20.00	14.00	27.00	20.00	19.00	14.00	25.00	24.00	17.00	28.00	16.00	18.00	2.00	0.00	17.00	19.00	35.00	23.00	23.00	0.00	27.50	0.00	0.00	0.00	29.00	0.00	5.00	20.00	0.00
Avg Speed Minus Penalties (km/h)			18.3	16.1	14.5	14.1	20.9	13.8	18.9	17.4	13.9	10.0	19.5	14.1	13.8	9.7	17.4	17.0	11.3	20.5	11.2	13.1	1.3	0.0	11.8	13.7	25.3	16.4	16.3	0.0	20.0	0.0	0.0	0.0	21.2	0.0	3.5	14.8	0.0
Avg Speed Minus Penalties (mph)			11.4	10.0	9.0	8.8	13.0	8.6	11.7	10.8	8.7	6.2	12.1	8.8	8.6	6.1	10.8	10.6	7.0	12.7	7.0	8.1	0.8	0.0	7.4	8.5	15.7	10.2	10.1	0.0	12.4	0.0	0.0	0.0	13.2	0.0	2.2	9.2	0.0
Illegal Start Assistance (m)	500																																						
Damage or Loss of Parcel (m)	up to 500					300		200					300						100		300				500			100	100										
Failure to Stop at Stop Sign, Complete Slalom, Hairpin Turn, or Quick Turn (m)	500		1500		500	1000		1000		1500	1000	1000		1000		500	1500	1500	2000								1000		500		500				500		500		
Safety Violation [Laps]	1 or more																														0.5								
Min Driver Lap Violation [Laps]	1							3								1																							
Max Driver Lap Violation [Laps]	1																											1											
Endurance - Rank			**8**	**11**	**15**	**20**	**2**	**16**	**7**	**9**	**19**	**28**	**6**	**18**	**21**	**27**	**10**	**12**	**25**	**4**	**26**	**23**	**30**	**31**	**24**	**22**	**1**	**13**	**14**	**31**	**5**	**31**	**31**	**31**	**3**	**31**	**29**	**17**	**31**
Overall - Total	**100**		70.63	65.12	70.09	49.15	62.24	55.95	66.82	46.59	34.75	27.85	51.73	50.58	55.52	49.37	57.76	53.14	40.26	49.89	48.99	67.88	13.28	9.80	35.55	57.80	89.95	63.19	55.80	12.47	68.94	0.06	0.06	1.03	43.34	0.06	20.87	28.02	0.06
Overall - Rank			**2**	**7**	**3**	**20**	**9**	**12**	**6**	**22**	**26**	**28**	**16**	**17**	**14**	**19**	**11**	**15**	**24**	**18**	**21**	**5**	**30**	**32**	**25**	**10**	**1**	**8**	**13**	**31**	**4**	**34**	**34**	**33**	**23**	**34**	**29**	**27**	**34**