

2017 MATE International ROV Competition

June 23-25, 2017 - Long Beach City College, Long Beach, CA

Port Cities of the Future

RANGER CLASS - FINAL Scores

TEAM	School: Team Name (if applicable)	Product Demo	Product Presentation ***	Technical Documentation ***	Marketing Display ****	Company Spec	Outreach & Inspiration	Safety	TOTAL	RANKING
RNG 22	Saturday ROV Club Watsonville Firefighters Seal Team 1272	255.00	82.00	94.00	49.50	19.00	5.00	40.00	544.50	1
RNG 01	Highlands Intermediate Kaimana Enterprises	275.00	72.00	77.00	49.00	19.00	5.00	46.00	543.00	2
RNG 08	Ozaukee High School Robotics	225.00	95.00	84.50	51.00	20.00	7.00	48.00	530.50	3
RNG 05	The Center for Robotics Development Robocenter	205.00	78.50	78.00	50.00	20.00	6.00	46.00	483.50	4
RNG 20	Palos Verdes Institute of Technology PVIT	185.00	92.50	75.00	48.00	20.00	6.00	44.00	470.50	5
RNG 26	Mt. Laurel Township Hydro Tech	165.00	81.00	99.50	51.00	20.00	3.00	44.00	463.50	6
RNG 17	First Flight Middle School - NexGen	180.00	82.50	86.00	40.00	20.00	6.00	40.00	454.50	7
RNG 09	Stockbridge High Gold Team	180.00	67.50	83.50	49.00	20.00	9.00	42.00	451.00	8
RNG 23	Harrington Middle School SeaBots	175.00	80.00	84.50	49.00	20.00	-	40.00	448.50	9
RNG 16	Macau Anglican College Fish Logic	130.00	102.50	98.00	41.00	20.00	4.00	46.00	441.50	10
RNG 28	Keith Grammar School impROVise	155.00	79.50	89.50	49.00	20.00	-	44.00	437.00	11
RNG 07	North Paulding Wolfpack Robotics	175.00	66.00	82.00	48.50	20.00	5.00	36.00	432.50	12
RNG 18	Brother Rice High Crusader Robotics	150.00	74.50	82.50	53.50	20.00	6.00	43.00	429.50	14
RNG 24	Newport High School Finnovators	150.00	83.00	80.00	43.50	20.00	7.00	46.00	429.50	14
RNG 32	Woodinville High Sea Wolf	145.00	87.50	75.00	42.00	20.00	2.00	40.00	411.50	15
RNG 02	California Academy of Math and Science CAMS	150.00	68.00	88.50	36.50	19.00	1.00	48.00	411.00	16
RNG 35	Donuts School of Robotics Jr. Huskies	125.00	79.50	76.00	50.50	20.00	5.00	40.00	396.00	17
RNG 12	Corner Brook Regional High Titans	154.00	52.00	74.50	41.50	18.00	3.00	50.00	393.00	18
RNG 21	Staples High School Curiodyssey	105.00	72.50	99.00	50.00	20.00	-	46.00	392.50	19
RNG 30	O'Donel High School OD4D	100.00	89.50	73.00	49.50	20.00	6.00	44.00	382.00	20
RNG 27	Bentley Upper School Phoenix Electronics	95.00	70.50	100.00	44.00	20.00	1.00	48.00	378.50	21
RNG 33	Colegio Sagrado Corazon CYLON Corp	125.00	74.00	59.00	48.00	20.00	5.00	43.00	374.00	22
RNG 31	Argo Community High Knights of Poseidon	155.00	58.00	55.50	39.00	20.00	-	44.00	371.50	23
RNG 36	STEM ECHS The CORPS	120.00	58.50	73.50	37.00	20.00	3.00	46.00	358.00	25
RNG 38	Copenhagen School KEA Goes Deep	140.00	63.50	55.00	41.50	18.00	-	40.00	358.00	25
RNG 04	Gahanna Lincoln High The Lincoln Group	125.00	58.50	74.50	34.50	20.00	-	44.00	356.50	27
RNG 25	Walnut Valley Quantum Hydromechs	125.00	68.50	69.50	41.50	19.00	3.00	30.00	356.50	27
RNG 34	Limestone County Career Tech Lost Rockets	130.00	75.50	73.50	35.50	19.00	-	20.00	353.50	28
RNG 06	Community Team ROBOTECH The Kraken	144.00	52.50	71.50	34.60	15.00	-	27.00	344.60	29
RNG 15	Mount Pearl Senior High Husky Explorers	90.00	76.00	71.00	47.00	19.00	-	39.00	342.00	30
RNG 19	Robotics Club Kepler Enterprises	105.00	81.50	67.00	33.50	13.00	5.00	35.00	340.00	31
RNG 03	Kwok Tak Seng Catholic KTSCSS Dolphin	115.00	47.50	80.50	42.00	20.00	3.00	27.00	335.00	32
RNG 10	CMA Secondary School CMass Robotics	50.00	82.50	81.50	49.00	20.00	4.00	43.00	330.00	33
RNG 37	Pine Crest High Panther Robotics	114.00	68.50	52.00	33.50	20.00	4.00	35.00	327.00	34
RNG 40	Sekolah Robot Indonesia	105.00	44.00	67.00	37.00	17.00	-	40.00	310.00	35
RNG 29	Halifax Robotics Nova Underwater Tech	55.00	78.50	79.00	31.00	20.00	-	45.00	308.50	36
RNG 13	Eureka Tech Academy Eureka C-Sharks	44.00	65.50	71.00	19.00	10.00	-	25.00	234.50	37
RNG 11	Kealakake High Lalo Ka Wai	65.00	57.50	33.00	26.50	19.00	-	30.00	231.00	38
RNG 14	Innovators	37.00	65.50	34.50	30.50	19.00	-	30.00	216.50	39
RNG 39	ALEV High School	50.00	55.00	41.00	14.00	13.00	-	20.00	193.00	40

***average of two scores

****average of multiple scores

2017 IATE International ROV Competition

May 15-17, 2017 - Long Beach City College, Long Beach, CA

Robots of the Future

ROV RATER CLASS - FINAL Scores

School: Team Name (if applicable)	Product Demo	Product Presentation ***	Technical Documentation ***	Marketing Display ****	Company Spec	Outreach & Inspiration	Safety	TOTAL	RANKING
Hong Kong University of Science and Technology EPOXSEA	230.00	91.00	85.00	49.00	19.00	10.00	48.00	532.00	1
Highway 68 ROV Club Sea Sweepers	255.00	83.00	55.50	48.50	19.00	8.00	44.00	513.00	2
Faculty of Engineering Alexandria University Vortex	189.00	75.50	67.00	42.50	19.00	5.00	48.00	446.00	3
Arab Academy for Science and Technology Invictus	155.00	96.00	80.00	41.50	19.00	5.00	44.00	440.50	4
Memorial University of Newfoundland Eastern Edge Robotics	164.00	82.00	70.50	47.00	19.00	8.00	44.00	434.50	5
Garrett College Project Kraken	185.00	84.50	57.50	46.50	20.00	-	40.00	433.50	6
Jesuit High School Robotics	135.00	89.00	80.50	52.50	18.00	5.00	48.00	428.00	7
Purdue University IEEE	113.00	96.50	87.50	48.50	20.00	7.00	46.00	418.50	8
Copiah Lincoln Community College SURE	145.00	85.50	65.00	35.50	20.00	8.00	42.00	401.00	9
The Center for Robotics Development RC ROV	115.00	89.00	80.00	45.50	19.00	6.00	46.00	400.50	10
Faculty of Engineering Alexandria University TORPEDO	104.00	84.50	82.50	45.50	19.00	6.00	36.00	377.50	11
University of Stavanger UiS Subsea	150.00	51.00	68.00	40.00	19.00	4.00	25.00	357.00	12
Norwegian University Science and Tech Vortex NTNU	80.00	82.00	59.00	46.00	19.00	5.00	50.00	341.00	13
Dalhousie University Tigersharks	95.00	72.00	79.50	28.50	19.00	-	46.00	340.00	14
Bauman Moscow Technical University Hydronautics	60.00	92.50	71.50	38.00	20.00	7.00	48.00	337.00	15
Milwaukee School of Engineering MSEO ROV	115.00	59.00	64.50	33.50	20.00	-	40.00	332.00	16
Sea Tech 4H Club Daedalus	60.00	78.00	70.00	40.50	19.00	5.00	41.00	313.50	17
University of Sheffield Avalon	66.00	81.00	50.50	45.50	19.00	-	48.00	310.00	18
Effat University Zoom Engineers	70.00	87.50	58.50	32.50	18.00	-	37.00	303.50	19
Northern Illinois University NIU Robotics	93.00	56.50	62.00	27.00	19.00	-	44.00	301.50	20
Clatsop Community College Lazarus	65.00	81.00	68.50	29.00	19.00	9.00	30.00	301.50	20
Technologico Monterrey TecXotic	78.00	74.00	58.00	30.00	17.00	-	40.00	297.00	22
Istanbul Technical University	75.00	69.00	67.00	28.50	20.00	-	34.00	293.50	23
Long Beach City College VX Industries	52.00	66.00	54.50	39.00	19.00	5.00	46.00	281.50	24
SVKMs NMIMS Team Screwdriver	45.00	62.50	59.50	46.50	18.00	9.00	38.00	278.50	25

of two scores ****average of multiple score!

2017 MATE International ROV Competition Awards

<u>CATEGORY</u>	<u>DESCRIPTION</u>	<u>WINNERS</u>	
		EXPLORER	RANGER
• Overall winners	Based on overall, total score		
○ 1 st		<p>Hong Kong University of Science & Technology EPOXSEA</p> <p>Hong Kong</p>	<p>Saturday ROV Club Watsonville Firefighters' Seal Team #1272</p> <p>Aptos, CA USA</p>
○ 2 nd		<p>Highway 68 ROV Club Sea Sweepers</p> <p>Salinas, CA USA</p>	<p>Highlands Intermediate/ Pearl City High School Kaimana Enterprises</p> <p>Pearl City, HI USA</p>
○ 3 rd		<p>Faculty of Engineering – Alexandria University Vortex</p> <p>Alexandria Egypt</p>	<p>Ozaukee High School Ozaukee Robotics</p> <p>Fredonia, WI USA</p>

<ul style="list-style-type: none"> • Technical documentation 	<p>Based on evaluation score; see the competition manuals for the elements on which teams will be judged. <i>[The winning technical documentation are invited to submit a paper to the IEEE Computer Society flagship publication.]</i></p>	<p>Purdue University Purdue IEEE</p> <p>West Lafayette, IN USA</p>	<p><i>TIE!!!</i></p> <p>Mount Laurel Township MTL Hydrotech</p> <p>Mount Laurel, NJ USA</p> <p>&</p> <p>Bentley Upper School Phoenix Electronics</p> <p>Lafayette, CA USA</p>
<ul style="list-style-type: none"> • Marketing display 	<p>Based on evaluation score; see the competition manual for the elements on which teams will be judged. <i>[The winning posters will be published in the Journal of Ocean Technology, which is published by the Marine Institute of Memorial University.]</i></p>	<p>Jesuit High School Jesuit Robotics</p> <p>Carmichael, CA USA</p>	<p>Staples High School Curiodyssea, LLC</p> <p>Westport, CT USA</p>
<ul style="list-style-type: none"> • Product presentation*** 	<p>Based on evaluation score; see the competition manual for the types of elements on which teams will be judged.</p>	<p>Purdue University Purdue IEEE</p> <p>West Lafayette, IN USA</p>	<p>Macau Anglican College Fish Logic</p> <p>Taipa Macau</p>

<ul style="list-style-type: none"> • Product demonstration 	<p>Based on the demonstration performance; see the competition manual mission tasks and scoring.</p>	<p>Highway 68 ROV Club Sea Sweepers</p> <p>Salinas, CA USA</p>	<p>Highlands Intermediate/ Pearl City High School Kaimana Enterprises</p> <p>Pearl City, HI USA</p>
<ul style="list-style-type: none"> • Harry Bohm/Jill Zande “Sharkpedo” award 	<p>Innovation and originality; thinking outside of the box</p>	<p>Arab Academy of Science, Technology, & Maritime Transport Invictus</p> <p>Alexandria Egypt</p>	<p>Walnut Valley Quantum Hydromechs</p> <p>Covina, CA USA</p>
<ul style="list-style-type: none"> • Biggest Bang for the Buck 	<p>Spent the least amount of money on a vehicle that performed well</p>	<p>Garrett College Project Kraken</p> <p>McHenry, MD USA</p>	<p>Highlands Intermediate/ Pearl City High School Kaimana Enterprises</p> <p>Pearl City, HI USA</p>
<ul style="list-style-type: none"> • Safety Conscious 	<p>For the team that exhibited exemplary safety practices</p>	<p>Hong Kong University of Science & Technology EPOXSEA</p> <p>Hong Kong</p>	<p>California Academy of Math & Science CAMS 1</p> <p>Long Beach, CA USA</p>

<ul style="list-style-type: none"> • Design Elegance 	<p>For the vehicle that incorporates aesthetics, simplicity, and functionality into its design</p>	<p>Garrett College Project Kraken</p> <p>McHenry, MD USA</p>	<p>Macau Anglican College Fish Logic</p> <p>Taipa Macau</p>
<ul style="list-style-type: none"> • Aloha Team Spirit 	<p>Enthusiasm, encouragement, best team t-shirts</p>	<p>Effat University Zoom Engineers</p> <p>Jeddah, KSA Saudi Arabia</p>	<p>Copenhagen School of Design & Technology KEA Goes Deep</p> <p>Copenhagen Denmark</p>
<ul style="list-style-type: none"> • Guts & Glory 	<p>Overcame hardships with determination and resolve</p>	<p>Dalhousie University Dalhousie Tigersharks</p> <p>Halifax, NS Canada</p>	<p>Eureka Tech Academy Eureka C-Shark</p> <p>Amman Jordan</p>
<ul style="list-style-type: none"> • gROVer Award 	<p>In honor of Crocket Wise, founder of the Team Orlando Robotic Club (TORC) and technical assistant at both the Florida Regional and the International ROV competitions. Awarded to a team or individual who demonstrates courtesy, kindness, and professionalism and assists other teams, providing technical as well as moral support.</p>	<p>Faculty of Engineering – Alexandria University Torpedo</p> <p>Alexandria Egypt</p>	

<ul style="list-style-type: none"> • Martin Bowen Memorial Inspiration for Future Engineers Award 	<p>In honor of Martin Bowen, underwater vehicle engineer and ROV pilot. Martin spent a good part of his career at the Woods Hole Oceanographic Institution (WHOI). He made six dives in the Alvin submersible during the second Titanic expedition and was the first to pilot an ROV down the grand staircase of the famous shipwreck. Given to a team or individual who demonstrates passion, creativeness, and ingenuity along with professionalism and kindness towards fellow competitors.</p>	<p style="text-align: center;">Sun Woo Da Costa Saturday ROV Club Watsonville Firefighters' Seal Team #1272</p> <p style="text-align: center;">Aptos, CA USA</p>
<ul style="list-style-type: none"> • Flying Fish award 	<p>Presented to a team that demonstrates ingenuity and creativity in the design and operation of its ROV.</p>	<p style="text-align: center;">Katherine Mao Purdue University Purdue IEEE</p> <p style="text-align: center;">West Lafayette, IN USA</p>
<ul style="list-style-type: none"> • Martin Klein MATE MARINER MEDAL 	<p>The award is given to an individual or team that shows an outstanding passion, not just for winning, but for the whole competition process. This includes a genuine interest in the mission and a penchant for a lifetime interest in this field.</p>	<p style="text-align: center;">Jason Julius Milwaukee School of Engineering MSOE ROV</p> <p style="text-align: center;">Milwaukee, WI USA</p>
<ul style="list-style-type: none"> • Oceaneering Health, Safety, and Environmental (HSE) Award 		<p style="text-align: center;">Halifax Robotics Nova Underwater Technologies</p> <p style="text-align: center;">Halifax, NS Canada</p>

*****Product Presentation MVPs*****

EXPLORER

- **George Oates Larsen, Clatsop Community College – Lazarus, Astoria, OR, USA**
- **Malak Albagami, Effat University – Zoom Engineers, Jeddha, KSA, Saudi Arabia**
- **Miguel Figuera, Tecnologico de Monterrey - TecXotic, Xochitepec, Morelos, Mexico**

RANGER

- **Nate Love, Robotics Clubs, USA, LLC – Kepler Enterprises, San Antonio, TX, USA**
- **Cerys Chan, Macau Anglican College – Fish Logic, Taipa, Macau**
- **Jacob Thomas, First Flight Middle School – First Flight ROV - NexGen, Kill Devil Hills, NC, USA**
- **Katherine Walton, Saturday ROV Club – Watsonville Firefighters’ Seal Team #1272, Aptos, CA, USA**

**‘Cause that’s how we ROV” social media contest award winner
SVKM’s NMIMS MPSTME – Team Screwdrivers, Mumbai, India**