

**The 2017 University Physics Competition  
Results Announcement – January 17, 2018**

We are very pleased to announce the results of the eighth annual University Physics Competition. The University Physics Competition is an international contest for undergraduate students, who worked in teams of up to three students at their home colleges and universities all over the world, and spent 48 hours during the weekend of November 10, 11, & 12, 2017, analyzing an applied scenario using the principles of physics, and writing a formal paper describing their work.

In this year's competition 265 teams submitted papers for judging. 193 teams selected "Problem A – Solar Sailing to Mars" and 72 teams selected "Problem B – Ion Thrusters."

For Problem A, the Gold Medal Winning Teams were:

**Team 670: Wojciech Zwoliński, Marcin Kalinowski, & Jerzy Szuniewicz**

**Institution: Faculty of Physics at the University of Warsaw**

**Faculty Sponsor: Wojciech Dominik**

**Team 699: Liu Pengtao, Long Kehan, & Li Ruoqing**

**Institution: National University of Defense Technology**

**Faculty Sponsor: Gang Peng**

**Team 744: Marco Praderio Bova, Eneko Martin Martinez, & Maria dels Àngels Guinovart Llord**

**Institution: Universitat Autònoma de Barcelona**

**Faculty Sponsor: Ramon Muñoz Tapia**

For problem B, the Gold Medal Winning Team was:

**Team 609: Sohair Abdullah, Jackson Schrott, & Nicholas Crews**

**Institution: Colorado College**

**Faculty Sponsor: Stephanie DiCenzo**

Of the 265 papers submitted in the 2017 University Physics Competition, 4 teams (1.5%) were ranked as Gold Medal Winners, 48 teams (18%) were ranked as Silver Medal Winners, 71 teams (27%) were ranked as Bronze Medal Winners, and 142 teams (54%) were ranked as Accomplished Competitors.

We extend our sincerest congratulations to each of the competing teams for their excellent work and their enthusiasm for physics!

Kelly S. Cline

Carroll College; Helena, MT

Director of the University Physics Competition

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**Problem A - Solar Sailing to Mars**

<b>Team #</b>	<b>Sponsor/Students</b>	<b>Institution</b>	<b>Problem</b>	<b>Rank</b>
670	Wojciech Dominik Wojciech Zwoliński, Marcin Kalinowski, Jerzy Szuniewicz	Faculty of Physics at the University of Warsaw	A	Gold Medal
699	Gang Peng Liu Pengtao, Long Kehan, Li Ruoqing	National University of Defense Technology	A	Gold Medal
744	Ramon Muñoz Tapia Marco Praderio Bova, Eneko Martin Martinez, Maria dels Àngels Guinovart Llort	Universitat Autònoma de Barcelona	A	Gold Medal
602	Manyi Duan Chaoyuan Zeng, Rui Ye, Zhengcong Xia	Sichuan Normal University	A	Silver Medal
606	Kai Ming Lee Wong Hong Tsun, Patrick Ng Ka Wai, Gong Zhengyangguang	The University of Hong Kong	A	Silver Medal
658	Randolph S. Peterson Davis C. Easley, B. Tyler Blankenship, William L. Burton-Edwards	University of the South	A	Silver Medal
674	Hu Xuelan Dengjiang Ge, Liu Tong, Hou Shuang	Civil Aviation University Of China	A	Silver Medal
678	Saikat Ghosh Kishan Sankharva, Nachiket Karve, Abhinav Airan	Indian Institute of Technology, Kanpur	A	Silver Medal
681	Morten Hjorth-Jensen Daniel Heinesen, Gunnar Felix Lange, Erlend Lima	University of Oslo	A	Silver Medal
687	Krzysztof Sacha Tomasz Szoldra, Paweł Matus, Jakub Czartowski	Jagiellonian University in Krakow	A	Silver Medal
695	Kyle Shen Chase Goddard, Chetan Velivela, Michael Terilli	Cornell University	A	Silver Medal
700	Gang Peng Chen Huifeng, Li Jiasheng, Shen Yang	National University of Defense Technology	A	Silver Medal
706	Gang Peng Zhao Guangjiu, Wang Junge, Yang Yudan	National University of Defense Technology	A	Silver Medal
709	Gang Peng Wang Jiayao, Peng Xiangyu, Su Xinxin	National University of Defense Technology	A	Silver Medal
711	Gang Peng Zhang Yuan, Liang Peng, Yu Sheng	National University of Defense Technology	A	Silver Medal
716	YanLan He Li Xin, Li Guochen, Huang Guocheng	National University of Defense Technology	A	Silver Medal
719	YanLan He Wang Benyu, Liu Hongyi, Jiang Guangjun	National University of Defense Technology	A	Silver Medal
720	YanLan He Yan Rui, Zeng Bo, Wu Yanbo	National University of Defense Technology	A	Silver Medal
725	Zhenxiang Liu Cao Junhui, Liu Bolong, Ye Zeqi	National University of Defense Technology	A	Silver Medal
726	Zhenxiang Liu Hou Yunfei, Jiang Dapeng, Huang Xiaona	National University of Defense Technology	A	Silver Medal
738	Tony Drummond Long Le, Hoang Nguyen, Stanislav Chobanov	Minerva Schools at KGI	A	Silver Medal
740	Wojciech Dominik Adam Naęcz-Jawecki, Marcin Solariski, Piotr Górski	Faculty of Physics at the University of Warsaw	A	Silver Medal
747	Nicole Ackerman Jennifer Bates, Ruoyi Wang, Ruotong Zhai	Agnes Scott College	A	Silver Medal
751	Andrew Frey Raphael Hoult, Kelsey Duncan, Tim Coates	University of Winnipeg	A	Silver Medal
766	Marta Gonzalez Elisabet Roda, Laia Weisz, Marta Carrizo	Universitat Autònoma de Barcelona	A	Silver Medal
768	Reinard Primulando Muhammad Arifin Dobson, Maria Gabriella Hadinata, Liem Jonathan Dharmaatmaja	Parahyangan Catholic University	A	Silver Medal

812	Lingling Gao Zhen Lei, Zhichao Yang, Jin Bi	Officers College of PAP	A	Silver Medal
816	Subroto Mukerjee Pragati Gupta, Shivnag Sista, Thanmay Sunil Menon	Indian Institute of Science	A	Silver Medal
831	Fang Kai Wang Jiayu, Li Houjin, Cao Yuxuan	Tongji University	A	Silver Medal
832	Fang Kai Zhou Yucheng, Zheng Zhe, Luo Yu	Tongji University	A	Silver Medal
860	Huifen Guo Shuai Wang, Jiatuo An, Lizhi Wang	Henan University of Science and Technology	A	Silver Medal
864	Md. Wahadoszamen Sumit Biswas, Tushar Mitra, Amit Lahiri	University of Dhaka	A	Silver Medal
879	Rafel Escribano Carrascosa Jordi Ferré Rodríguez, Sergi Andreu Boix, Eduard Calsina Pla-Giribert		A	Silver Medal
885	Marta González Silveira Pablo Benlloch Garcia, Pol Julià Farré, Jaime Pedregal Pastor	Universitat Autònoma de Barcelona	A	Silver Medal
889	Juan Camacho Castro Marina Berbel Palomeque, Víctor Escolano García, Álvaro Moreno Abajo	Universidad Autónoma de Barcelona	A	Silver Medal
891	Marta González Silveira Carles Falcó Gandia, Adrià Marin Salvador, Arnau Mas Dorca	Universitat Autònoma de Barcelona	A	Silver Medal
897	Pan Nana Lu Yun, Kong Jiangang, Hu Peiwen	Chongqing University of Posts and Telecommunications	A	Silver Medal
899	Leonard Kisslinger Peter Espenshade, Eric Peet, Nikolai Flowers	Carnegie Mellon University	A	Silver Medal
611	Anock Somadder Rajiv Das	Shahjalal University of Science and Technology	A	Bronze Medal
613	David Miller Theodoros Stylianos Papazachariou, Quinn Palmer, Ruaraidh Osbourne	University of Glasgow	A	Bronze Medal
631	Anock Somadder Md. Syful Islam, Md. Shamim Hossain, Nazimur Rashid Chowdhury	Shahjalal University of Science & Technology, Sylhet	A	Bronze Medal
632	Jun Yang Huiyu Zhu, Shixin Hu, Jiahua Zhao	Southern University of Science and Technology	A	Bronze Medal
633	Anock Somadder Md. Sadik Hasan, Minhazul Kibria, Syed Nauros Hossain Romim	Shahjalal University of Science & Technology, Sylhet	A	Bronze Medal
635	Ponkog Kumar Das Newton Kumar Mondol, Rahul Saha, Sadikul Islam	Shahjalal University of Science and Technology	A	Bronze Medal
665	Shuhua Wang Yu'er Jiang, Yinda Guo, Shiqi Xin	Qingdao University	A	Bronze Medal
666	Md. Enamul Haque Khan Mahmud Enamul Hasan, Mash-Huda Rahman Shipra, Md. Sourav Mostafa	Shahjalal University of Science & Technology	A	Bronze Medal
689	Kater Murch Parvathi Narayan, Viktoria Ohstrom, Caleb Ji	Washington University in St. Louis	A	Bronze Medal
696	Theocharis Apostolatos Emmanouil-Georgios Drimalas, Panos Englezos, Aristotelis Koutsikos	National and Kapodistrian University of Athens	A	Bronze Medal
697	John F. Lindner Nathaniel Moore, Wan Hang Hui, Abigail Ambrose	The College of Wooster	A	Bronze Medal
698	Li Yanqiang Kong Ling Qi, Chen Ye, Weng Yunfei	Qingdao University	A	Bronze Medal
701	Gang Peng Gu Guang Fei, Liu Jia Cheng, Sun YuChen	National University of Defense Technology	A	Bronze Medal
702	Gang Peng Zhang Tianyi, Jiang Yibin, Zhang Yi	National University of Defense Technology	A	Bronze Medal
713	Gang Peng Lu Shengyang, Qian Hanxiang, Sun Jianxiang	National University of Defense Technology	A	Bronze Medal

714	YanLan He Jiang Xinpeng, Wei Juhui, Zeng Qiyu	National University of Defense Technology	A	Bronze Medal
717	YanLan He Peng Chengyuan, Gao Yuan, Wang Jiayu	National University of Defense Technology	A	Bronze Medal
727	Zhenxiang Liu Dai Zhouxuan, Chen Lei, Yang Conglin	National University of Defense Technology	A	Bronze Medal
728	Zhenxiang Liu Ding Ling, Wang Boyang, Chen Chen	National University of Defense Technology	A	Bronze Medal
732	Zhenxiang Liu Li Dong, Li Zhemin, Zhong Lihua	National University of Defense Technology	A	Bronze Medal
733	Zhenxiang Liu Zhao Yurui, He Yuqi, Wu Tianhao	National University of Defense Technology	A	Bronze Medal
753	Liwei Shi Chuannan Li, Hanpu Liang, Anping Hu	China University of Mining and Technology	A	Bronze Medal
763	Edwin Greco Kenny Higginbotham, Adam Kull, Talha Irfan Khawaja	Georgia Institute of Technology	A	Bronze Medal
764	Edwin Greco Zak Kennedy, Michael Barnhill, Tony Aportela	Georgia Institute of Technology	A	Bronze Medal
767	Reinard Primulando Dini Widiiana, Nadya Tjindra, Glenn Reysan	Parahyangan Catholic University	A	Bronze Medal
771	Chunhua Zheng Xiaoqiang Zhang, Huan Wang, Longting Wu	Officers College of PAP	A	Bronze Medal
772	Chunhua Zheng Chao Tan, Qian Zhou, Hao Jiang	Officers College of PAP	A	Bronze Medal
775	Yaqiong Guo Youfu Zhu, Nan Xie, Di Zhao	Officers College of PAP	A	Bronze Medal
800	Meng Zhou Wenbei He, Wenfei Zhang, Hui Xu	Officers College of PAP	A	Bronze Medal
801	Chunhua Zheng Hengyu Wu, Gen Chen, Shiwei Xu	Officers College of PAP	A	Bronze Medal
807	Huihui Zhuang Jicen Zhang, Shiyu Yin, Huanyu Li	Officers College of PAP	A	Bronze Medal
808	Yingqi Tao Tianhao Liang, Min Hu, Qingjin Chen	Officers College of PAP	A	Bronze Medal
809	Niao Bo Yanjie Zhu, Zhiyi Fan, Caigao Huang	Officers College of PAP	A	Bronze Medal
810	Huihui Zhuang Xunhao Sun, Shengzhe Ye, Lifeng Li	Officers College of PAP	A	Bronze Medal
811	Huihui Zhuang Jinyan Liu, Yu Cui, Li Han	Officers College of PAP	A	Bronze Medal
833	Fang Kai Guan Daoming, Ouyang Zhongyan, Tang Wenting	Tongji University	A	Bronze Medal
835	Zhang Yuzhong Huang Shengpeng, Chen Kuan, Xie Xiaoyi	Tongji University	A	Bronze Medal
839	Fang Kai Zhu Chenyu, Liang Xiaojia, Xin Shuo	Tongji University	A	Bronze Medal
846	Eduard Massó Mario Rodrigo, Raul Morral, Carlos Ruiz	Universitat Autònoma de Barcelona	A	Bronze Medal
847	Qin Zhe Feng Xuzeng, Jia Huiru, Chang Haochen	Civil Aviation U. of China/Sino-European Inst.	A	Bronze Medal
852	Changcheng Zheng Huiying Xu, Luanhao Lu, Wenxuan Shao	Xi'an JiaoTong Liverpool University	A	Bronze Medal
854	Haoyang Li Yanru Chen, Jianing Li	Chang'an University	A	Bronze Medal

856	David Olsgaard Taylor Jurgensen, Michael Hite	Simpson College	A	Bronze Medal
863	Zhe Zhang Huimin Yan, Guopan Yang, Man Qiao	Civil Aviation University Of China	A	Bronze Medal
886	Àlvar Sánchez Moreno Laia Waffelaert Pscual, Jaume Cunill Subiranas, Marc Serra Peralta	Universitat Autònoma de Barcelona	A	Bronze Medal
888	Marta González Silveira Mireia Mauricio Ribes, Bernat Bassols Cornudella, Nil Rodellas Gràcia	Universitat Autònoma de Barcelona	A	Bronze Medal
892	Santiago Suriñach Cornet Anicet Tibau Vidal, Marc Fuster Rullan, Daniel Goncalves Romeu	Universitat Autònoma de Barcelona	A	Bronze Medal
893	Refel Escribano Roger Morales Espasa, Mercè Roig Server, Alba Torras Coloma	Universitat Autònoma de Barcelona	A	Bronze Medal
895	Marta González Silveira Bernat Molero Agudo, Laia Domingo Colomer, Clàudia Serrano Colomé	Universitat Autònoma de Barcelona	A	Bronze Medal
910	Zhou Qingjun Tang Shengfeng, Fang Taozhi, Zhou Dingsen	Civil Aviation University of China	A	Bronze Medal
610	Anock Somadder Chowdhury Abrar Faiyaz, Md. Sayed Rahman, Wasim Kamal Emon	Shahjalal University of Science and Technology	A	Acc. Competitor
612	Anock Somadder Md. Riazur Rahman, Mubin Md. Al Furkan, Goutam Debnath Sagar	Shahjalal University of Science & Technology	A	Acc. Competitor
618	Md. Enamul Hoque Md Ashraful Alam Gazi, Mohammad Rashik Zaman, Preonath Chondrow Dev	Shahjalal University of Science & Technology	A	Acc. Competitor
619	Anock Somadder Sajib Sakhawat, Prya Mohammad Jannatul Huda, Shahnail Zulkarnain	Shahjalal University of Science & Technology	A	Acc. Competitor
620	Ponkog Kumar Das Nuzhat Anjum, Mohammad Nafiz Hannan, Mohammad Rashid Taher	Shahjalal University of Science & Technology, Sylhet	A	Acc. Competitor
622	Abdul Hannan Shahriar Kabir Pavel, Rifat Hayder, Farhadul Haque	Shahjalal University of Science and Technology	A	Acc. Competitor
625	Anock Somadder Md. Wahiduzzaman, Fatema Nawsheen Tabassum, Niranjana Kar	Shahjalal University of Science and Technology	A	Acc. Competitor
626	Anock Somadder Md Shadman Jarif Khan, Shajeda Begum, Nilima Rani Nath	Shahjalal University of Science & Technology	A	Acc. Competitor
629	Ponkog Kumar Das Muhammad Tahmid Wasif, Bijori Talukder, Ashraf Mahmud Shihab	Shahjalal University of Science and Technology	A	Acc. Competitor
630	Anock Somadder Mustabi Mustafa Chowdhury, Md. Syamul Bashar, Roma Kanto Paul	Shahjalal University of Science And Technology	A	Acc. Competitor
636	Moinul Haque Meaze Ali Reza Piyal, Mohammad Nahiyana Sajjad, Shuvro Dey	University of Chittagong	A	Acc. Competitor
638	A. K. M. Moinul Haque Mea Md. Mehedy Hasan Tanvir, Md. Kamrul Hasan Nayem, Kamrul Hassan Ovee	University of Chittagong	A	Acc. Competitor
639	Manyi Duan Yi Qin, Huilan Wu, Jinfeng Qin	Sichuan Normal University	A	Acc. Competitor
641	Anock Somadder Fatema Tuz Zohora, Tasmiya Tabassum Ritika, Nisha Saha Puja	Shahjalal University of Science and Technology, Sylhet	A	Acc. Competitor
644	Ponkog Kumar Das Syeda Adiba Huda, Mehjabeen Sultana Adrita, Nazmus Sayadat Ifat	Shahjalal University of Science and Technology	A	Acc. Competitor
646	Anock Samaddar Sata Tasnim (Mounata), Parama Saha, Md Rakib Hossain	Shahjalal University of Science & Technology	A	Acc. Competitor
651	Khurshida Begum Mehnaz Arefin, Jubraj Mitra, Anik Acharjee	Shahjalal University of Science and Technology	A	Acc. Competitor
654	Nusrat Jahan Koley Irfan Hossain, Sumit Roy Pronoy	Shahjalal University of Science and Technology	A	Acc. Competitor
655	Ponkog Kumar Das Abdullah Al Ha-meem, Md. Sohel Rana, Joy Chandro Gosh	Shahjalal University of Science & Technology	A	Acc. Competitor

660	Muhammad Omar Faruk Fatin Al Sadab, Kamrul Hasan Jony, Taimur Adri	Shahjalal University Of Science and Technology	A	Acc. Competitor
663	Daniel F. V. James Qinchen Wang, Leon Yao, Wei Zhu	University of Toronto	A	Acc. Competitor
667	Jeffrey McCallum Ryan Parker, Jarrah Harrison, Michael Jones	Melbourne University	A	Acc. Competitor
669	Shahidul Huqe Muzemder Md. Enamul Haque, Fawzia Binta Faruque, Md. Arif Ahmed	Shahjalal University of Science and Technology	A	Acc. Competitor
676	Eugenia Ciocan Phuc Vy Mach, Mussie Teshome Demisse, Cam Ngoc Tu Do	Bunker Hill Community College	A	Acc. Competitor
683	Shahidul Huqe Muzemder Umaer Abdullah Zaki, Sadman Sakib, Md. Masud Rana	Shahjalal University of Science & Technology	A	Acc. Competitor
685	Daniel F. V. James Qingyuan Qie, Zifeng Zhu, Yeqing Zhou	University of Toronto	A	Acc. Competitor
686	Daniel James Mobin Khan, Nizar Islah, Md. Zarif Mahmud	University of Toronto	A	Acc. Competitor
691	Kater Murch Tushar Menon, Enid Ibarra, Prajwal Keranahalli	Washington University in St. Louis	A	Acc. Competitor
692	Kater Murch Riley Martell, Tyler Orden, Jason Tang	Washington University in St. Louis	A	Acc. Competitor
694	Andrew Meyertholen Sun Yiu Samuel Wong, Xander Dufresne, Amir Banitaba	University of Toronto	A	Acc. Competitor
704	Gang Peng Yang Haiqiang, WangPensheng, Huang Shan	National University of Defense Technology	A	Acc. Competitor
705	Gang Peng Li Xinyan, Li Zeyue, Cong Wei	National University of Defense Technology	A	Acc. Competitor
708	Gang Peng Cao Jian, Pan Zhenyu, Tan Kewei	National University of Defense Technology	A	Acc. Competitor
718	YanLan He Liang Wen, Jiao Liping, Zhu Qi	National University of Defense Technology	A	Acc. Competitor
721	YanLan He Xu hao, Cao Liyuan, Xu Bin	National University of Defense Technology	A	Acc. Competitor
722	YanLan He Duan Shijie, Dai Houlin, Zeng Ping	National University of Defense Technology	A	Acc. Competitor
730	Zhenxiang Liu Duan Mingxu, Zhao Jie, Yang junling	National University of Defense Technology	A	Acc. Competitor
731	Zhenxiang Liu Ren Zhongxue, Cheng Xin, Deng Rujin	National University of Defense Technology	A	Acc. Competitor
734	Erich Poppitz Dong Hao Ou Yang, Kaixuan Hu, Wenyi Zhang	University of Toronto St. George Campus	A	Acc. Competitor
737	Lap-Ming LIN Zhaoning LIU, Chen QIAN, Jiayi ZHU	The Chinese University of Hong Kong	A	Acc. Competitor
742	Saleh Hasan Naqib Selim Reza, Abdur Rahman Mithu, Sajidul Islam Shovon	University of Rajshahi	A	Acc. Competitor
743	Jia-Ji Zhu Yang-Feng Fu, Dong-Qi Luo, Jun-Song Sun	Chongqing University of Posts and Telecommunications	A	Acc. Competitor
754	Ho Xuan Thinh Nguyen Minh Tri, Nguyen Thai Quang Thien, Ma Quoc Khanh	Vietnamese-German University	A	Acc. Competitor
755	Niao Bo Yuanqi Zhang, Tianxin Lv, Yuqi Feng	Officers College of PAP	A	Acc. Competitor
756	Huihui Zhuang Yucheng Pan, Shenghao Zhou, Yuyong Zhang	Officers College of PAP	A	Acc. Competitor
757	Niao Bo Shengjie Zhang, Ruhai Chi, Jitong Zhang	Officers College of PAP	A	Acc. Competitor

759	Yanrui Guo Fuchenglong Zhao, Xing Luo, Lixiang Zhou	College of Science, Civil Aviation University of China	A	Acc. Competitor
760	Hao Yu Ziwei Tao, Xinyue Liu, Jingyi Hu	Xi'an Jiaotong-Liverpool University	A	Acc. Competitor
762	Edwin Greco Tanay Tak, Steven Licciardello, William Hall	Georgia Institute of Technology	A	Acc. Competitor
770	Niao Bo Xiaofei Yang, Zhongzhou Fu, Junfei Chen	Officers College Of PAP	A	Acc. Competitor
773	Chunhua Zheng Qingjiao Ou, Caineng Hu, Yuejun Huang	Officers College of PAP	A	Acc. Competitor
774	Chunhua Zheng Junhua Long, Jiahong Zhu, Wei Nie	Officers College of PAP	A	Acc. Competitor
777	Qiming Du Tao Hu, Shaowei Peng, Hong Zeng	Officers College of PAP	A	Acc. Competitor
779	Huihui Zhuang Chengyu Gao, Hui Lin, Binxu Wang	Officers College of PAP	A	Acc. Competitor
781	Qiming Du Mingxing Zhu, Ronghuo Liang, Shuai Zhan	Officers College of PAP	A	Acc. Competitor
782	Chunhua Zheng Qiaosen Chen, Yixun Ge, Shangzong Yang	Officers College of PAP	A	Acc. Competitor
783	Chunhua Zheng Zhi Yang, Panlong Zhuo, Jiahao Zhu	Officers College of PAP	A	Acc. Competitor
784	Qimng Du Yonghui Liu, Lianzhong Sun, Yongzhi Jin	Officers College of PAP	A	Acc. Competitor
785	Niao Bo Kangfu Ren, Junsheng Tan, Xiaolei Lin	Officers College of PAP	A	Acc. Competitor
786	Chunhua Zheng Junhao Wu, Jiaying Wang, Jun Xiao	Officers College of PAP	A	Acc. Competitor
787	Jing Chen Yangxiang Chen, Ruidong Chen, Wencai Xie	Officers College of PAP	A	Acc. Competitor
788	Chunhua Zheng Shengbiao Cao, Wenhao Zhao, Jun Liu	Officers College of PAP	A	Acc. Competitor
789	Niao Bo Jinxiong Wei, Wenbo Xie, Shaojun Yang	Officers College of PAP	A	Acc. Competitor
791	Huihui Zhuang Xiaofei Ge, Tenghao Wang, Hongwei Qu	Officers College of PAP	A	Acc. Competitor
792	Huihui Zhuang Hao Lv, Zhixiang Zhang, Renfei Hu	Officers College of PAP	A	Acc. Competitor
793	Chunhua Zheng Xionggang Li, Yuzhong Chen, Jize Guo	Officers College of PAP	A	Acc. Competitor
795	Huihui Zhuang Zhiqiang Ren, Xinwei Li, Shuai Xing	Officers College of PAP	A	Acc. Competitor
797	Chunhua Zheng Dawei Wang, Guodong Li, Yiqi Fan	Officers College of PAP	A	Acc. Competitor
798	Chunhua Zheng Zheqi Lin, Songyan Qiao, Xuan Zhou	Officers College of PAP	A	Acc. Competitor
803	Qiming Du Yi Luo, Wenwen Li, Jinhao Xie	Officers College of PAP	A	Acc. Competitor
804	Lingling Gao Jin Duan, Xuewu Xie, Li Cheng	Officers College of PAP	A	Acc. Competitor
806	Chunhua Zheng Hao Li, Cece Wen, Chaohui Wang	Officers College of PAP	A	Acc. Competitor
813	Meng Zhou Xueyao Zhang, Hui Zhao, Xiao Zhao	Officers College of PAP	A	Acc. Competitor

814	Hao Yu Wenqian Cheng, Xinhang Lyu, Zhibin Yu	Xi'an Jiaotong-Liverpool University	A	Acc. Competitor
815	Changcheng Zheng Yudongfang Qin, Xubin Hu, Yilan Hu	Xi'an Jiaotong-Liverpool University	A	Acc. Competitor
818	Jinjun Liang Jiamin Wang, Milin Wang, Haoyu Wang	Xi'an Jiaotong Liverpool University	A	Acc. Competitor
819	Ananda Das Gupta Abhishek Nath, Sagnik Mukherjee, Sayan Mitra	Indian Inst. of Science Education and Research, Kolkata	A	Acc. Competitor
823	Changcheng Zheng Yimian Liu, Jiaheng Lei, Boyao Yang	Xi'an Jiaotong-liverpool University	A	Acc. Competitor
826	XiaoLi Jia DeFeng Wang, WenPei Wu, ZeFeng Wang	Specialized Forces College of PAP	A	Acc. Competitor
827	Hao Yu Renzhi Sheng, Xinyu Liu, Zeyu Zhu	Xi'an Jiaotong-Liverpool University	A	Acc. Competitor
828	T.Kouwenhoven Bixing Yan, Zhaoguang Si, Shuang Qiu	Xi'an jiaotong liverpool university	A	Acc. Competitor
829	Jinjun Liang Hongjie Zhang, Jiahui Wu, Yushi Zheng	XJTLU	A	Acc. Competitor
834	Zhang Yuzhong Ding Huangshengzhi, Chen Peng, Yang Chenwen	Tongji University	A	Acc. Competitor
841	Daniel James Tran Tri Minh Tieu, Kyle Marthree Xue	University of Toronto	A	Acc. Competitor
842	Changcheng Zheng Mingrui Yuan, Jinwei Li, Dequn Teng	Xianjiaotong-Liverpool University	A	Acc. Competitor
857	Daniel James Haolin Liu, Carlos Moguel, Aslesha Pokhrel	University of Toronto	A	Acc. Competitor
859	Mathew Okubo Zion Pibowei	Renaissance University	A	Acc. Competitor
861	Thijs Kouwenhoven Jingxuan Bao, Huanhuan Xu, Yanxin Zhao	Xi'an Jiaotong-Liverpool University	A	Acc. Competitor
862	Ferney Javier Rodriguez Christian David Forero Pulido, Jose Manuel Betancourt Valencia, Iván Mauricio Burbano	Universidad de los Andes	A	Acc. Competitor
865	Xiumin Liu Bo Jiang, Zengqiang Yuan, Yuwei Chen	Officers College of PAP	A	Acc. Competitor
866	XiuMin Liu Jian Yu, RunHu Tang, Rui Shen	Officers College of PAP	A	Acc. Competitor
867	Xiumin Liu Hefei Li, Xingzhen Yin, Xucheng Han	Officers College of PAP	A	Acc. Competitor
870	Ponkog Kumar Das Refat Sanjida, Banasree Sarkar Mou, Nithika Datta	Shahjalal University of Science and Technology	A	Acc. Competitor
871	Ponkog Kumar Das M. K. Munim, Aakiful Islam	Shahjalal University of Science and Technology	A	Acc. Competitor
873	Ponkog Kumar Das Suhrid Saha Pranta, Samiul Hossain Sajal, Nahidul Haque Shuvo	Shahjalal University of Science and technology	A	Acc. Competitor
874	Randolph S. Peterson Tristan W. Carlson, Elizabeth G. Tilly, Bryan W. Walker	University of the South	A	Acc. Competitor
876	Pham Do-Chung Do Thuy-Trang, Tran Son-Tung, Tran Ky-Vi	Hanoi National University of Education	A	Acc. Competitor
877	Yanmin Hu Jiayi Chen, Xinchun Zhang, Chun Tian	Civil Aviation University Of China	A	Acc. Competitor
878	Qingjun Zhou Xin Li, Siming Qi, Mengzhu Li	Civil Aviation University of China	A	Acc. Competitor
887	Carles Navau Estel Font Félez, Genís Làinez Moreno, Oriol Teixidó Garcia	Universitat Autònoma de Barcelona	A	Acc. Competitor



890	Verònica Ahufinger Modesto Orozco Ruiz, Eder Rodriguez Perelló, Albert Anguera Sempere	Universitat Autònoma de Barcelona	A	Acc. Competitor
901	Joseph Ribaudó Chelsey McMichael, Nathaniel Flower	Utica College	A	Acc. Competitor
902	Paul Urayama Linzhao Zhuo, Kefeng Jiang, Junjiang Li	Miami University	A	Acc. Competitor
908	Daniel James Nikhil Kumar, Johnny Yang	University of Toronto	A	Acc. Competitor
909	Daniel James Yan Li, Yiyan Luo, Zheng Qian Zhong	University of Toronto	A	Acc. Competitor

**Problem B - Ion Thrusters**

<b>Team #</b>	<b>Sponsor/Students</b>	<b>Institution</b>	<b>Problem</b>	<b>Rank</b>
609	Stephanie DiCenzo Sohair Abdullah, Jackson Schrott, Nicholas Crews	Colorado College	B	Gold Medal
659	Jianming Cai Qiuyu Lu, Qiang Zhou, Tianqing Zhu	Huazhong University of Science and Technology	B	Silver Medal
668	Andrew Morrison Angelique Klimek, Nicholas Razo, Vinh Pham	Joliet Junior College	B	Silver Medal
673	Christoph Englert Hector Spencer-Wood, Gavin Adams, Asmae Benhemou	The University of Glasgow	B	Silver Medal
688	Chung Ka Wai Lo Chim Yui, Tang Justin Wang-Lap, Wong Kwan Yue Clinton	The Chinese University of Hong Kong	B	Silver Medal
690	Kater Murch Ryan Wahidi, Jordan Pack, Matthew Galik	Washington University in St. Louis	B	Silver Medal
723	YanLan He Zhang Xingguo, Luo Wenqiang, Yao Yiheng	National University of Defense Technology	B	Silver Medal
739	Wojciech Dominik Michał Lipka, Julia Lange	Faculty of Physics at the University of Warsaw	B	Silver Medal
761	Edwin Greco Markian Hromiak, Robin Glefke, Aradhya Rajanala	Georgia Institute of Technology	B	Silver Medal
825	Peter Schupp Daniel Prelipcean, Kiran Adhikari, Aiman Abdulrahman Al-Eryani	Jacobs University Bremen	B	Silver Medal
851	Wei Kong Honghui Deng, Hongyang Wang, Weijia Jiang	Civil Aviation University of China	B	Silver Medal
872	Harish Parthasarathy Nakul Aggarwal, Udit Agarwal, Parth Darekar	Netaji Subhas Institute of Technology, New Delhi	B	Silver Medal
883	Xavier Álvarez Gerard Aquilar Tapia, Aitor Gomila Macaró, Joan Agustí Bruzon	Universitat Autònoma de Barcelona	B	Silver Medal
904	David Lamp Colin Brown, Safwan Hasan, Charlie Neuendorff	Texas Tech University Dept. of Physics and Astronomy	B	Silver Medal
605	Jiang Ying Zhu Ruijie, Ding Yongcheng, Jiang Houyong	Shanghai University	B	Bronze Medal
614	Jun Yang Mingqi Yan, Kebin Sun, Junyan Zhang	Southern University of Science and Technology	B	Bronze Medal
616	Md Enamul Hoque Amir Hamza, Abhijeet Devnath Abhi, Chowdhury Shadman Awsaf	Shahjalal University of Science and Technology, Sylhet	B	Bronze Medal
628	Ponkog Kumar Das Mohammad Abrar Nafi, Oliur Rahman, Nawsher Jahan Parvez	Shahjalal University of Science and Technology	B	Bronze Medal
664	Daniel F.V James Gautham Nair, Sherwin Xu, Aaron Howe	University of Toronto	B	Bronze Medal
671	Daniel James Martin Shoosterman, Aleezah Masood, Ruth Crasto	University of Toronto	B	Bronze Medal
677	Wen Li Jinchuan Yang, Jingyu Zhang, Sha Tang	Sino-European Institute of Aviation Engineering	B	Bronze Medal
707	Gang Peng Li Tianzhi, Zhang Song, Li Haobo	National University of Defense Technology	B	Bronze Medal
712	Gang Peng Yang Xu, Zhang Ru Yi, Zhang YuChen	National University of Defense Technology	B	Bronze Medal
715	YanLan He Li Xieqian, Ou Zhixin, Chen Xinglin	National University of Defense Technology	B	Bronze Medal
724	Zhenxiang Liu Liu Bokun, Cai Wenjie, Zhang Shiqun	National University of Defense Technology	B	Bronze Medal
735	Alfredo Aranda Brenda Dayanna Gómez-Cortés, Natalia Tene-Sandoval, Diego Radillo-Ochoa	Universidad de Colima	B	Bronze Medal

745	David Hamilton Lewis Dickson, Ryan Probyn, Jonas Dieker	University of Glasgow	B	Bronze Medal
765	Edwin Greco Hannah Phillips, Jonathan Jeffrey, Kenji Bomar	Georgia Institute of Technology	B	Bronze Medal
776	Chunhua Zheng Shan Yin, Chaowu Yang, Hui Xu	Officers College of PAP	B	Bronze Medal
821	Reinard Primulando Stevanus Setiawan, Elwin, Edward Kevin	Parahyangan Catholic University	B	Bronze Medal
824	Thijs Kouwenhoven Jiaming GU, Kexin Li, Xueqi Yao	Xi'an Jiaotong-liverpool University	B	Bronze Medal
838	Fang Kai Ouyang Yiping, Chen Hongxiang, Qin Zhihang	Tongji University	B	Bronze Medal
849	Runsheng Zhang Hang Gu, Shijin Wang, Yu Feng	Civil Aviation University of China	B	Bronze Medal
858	Ruxandra Mihaela Xiangling Xu, Jingwen Zhu, Xiqiao Xie	University of Toronto	B	Bronze Medal
881	Juan Camacho Castro Aleix March San José, Marc Niedworok Rodrigo, Albert Rico Andrés	Universitat Autònoma de Barcelona	B	Bronze Medal
601	Tao Wang Zhao Wang, Jia Xu	Sichuan Normal University	B	Acc. Competitor
607	Md. Enamul Hoque Md Sakibul Islam, Md Shafayet Islam, Shuvasish Chowdhury	Shahjalal University of Science and Technology, Sylhet	B	Acc. Competitor
615	Shyamal Ranjan Chakrabort Nea Jaw Rakhine, Sobhana Sifty, Md. Abdul Aziz	University of Chittagong	B	Acc. Competitor
624	Anock Somadder Promod Chandra Baidya, Ahmed Estiak Bidhan, Md Shaifullah Dipto	Shahjalal University of Science and Technology	B	Acc. Competitor
627	Shyamal Ranjan Chakrabort Rifat Amin, Mustofa Khalid Ovi, Nur Mohammad Imran	University Of Chittagong	B	Acc. Competitor
634	Ponkog Kumar Das Md. Luthful Hasan, Tarikul Islam Milon, Mohammad Nakib	Shahjalal University of Science and Technology	B	Acc. Competitor
647	Manyi Duan Yuqian Huang, Jialun Zhao, Deping Guo	Sichuan Normal University	B	Acc. Competitor
649	Anock Somadder Antu Sarker, Anik Mozumder, Abdullah Ar Rafi	Shahjalal University of Science and Technology	B	Acc. Competitor
652	Ponkog Kumar Das Tasnim Ibn Jakir, Istheak Ahmed, Fatin Ishraque Mazumdar	Shahjalal University of Science & Technology	B	Acc. Competitor
653	Anock Somadder Nurairia Islam Hafsa, Somiya Islam Soke, Md. Ishraq Jahan Bhuiyan Galib	Shahjalal University of Science and Technology	B	Acc. Competitor
661	Jun Yang Xiao Duan, Yiming Qi, Lingfei Wang	Southern University of Science and Technology	B	Acc. Competitor
662	Shyamal Ranjan Chakrabort Sagar Karmakar, Md. Mahamudul Hasan, Abdullah Al Shams	University of Chittagong	B	Acc. Competitor
672	Ponkog Kumar Das Mahiyath K. Chowdhury, Shashwata Sourav Roy, Samira Shahrin	Shahjalal University of Science and Technology	B	Acc. Competitor
675	David Kraines Zhenhua Liu, Xunjing Wei	Duke University	B	Acc. Competitor
682	Takuro Katsufuji Keng-Yi Liao, Zi Yuan Li, Jubayer Matin	Waseda University	B	Acc. Competitor
703	Gang Peng Liu Shirong, Lv Mingyang, Xu Bihao	National University of Defense Technology	B	Acc. Competitor
729	Zhenxiang Liu Wu Rui, Zhang Zhenwu, Yang Zhen	National University of Defense Technology	B	Acc. Competitor
746	Anock Somadder Golam Mohammad Kibria, Syed Navid Reza, Shakir Ahmed	Shahjalal University of Science and Technology	B	Acc. Competitor

748	Thijs Kouwenhoven Yuan Hui, Zheng Yang, Jingxuan He	Xian Jiaotong Liverpool University	B	Acc. Competitor
752	Xiong Yang Hu Zhang, Hongyi Yuan, Xueyan Yu	Civil Aviation University Of China	B	Acc. Competitor
758	Huihui Zhuang Zhimin Guo, Hang Shu, Zhiwen Li	Officers College of PAP	B	Acc. Competitor
780	Huihui Zhuang Xin Chen, Yunhao Jiang, Hanyao Hu	Officers College of PAP	B	Acc. Competitor
796	Meng Zhou Zhuoyue Zhang, Jinjun Zhou, Baohui Gao	Officers College of PAP	B	Acc. Competitor
799	Niao Bo Yang Liu, Yingpeng Ye, Weiping Wu	Officers College of PAP	B	Acc. Competitor
802	Chunhua Zheng Xi Chen, Zhi Cai, ZunCheng Lv	Officers College of PAP	B	Acc. Competitor
805	Chunhua Zheng Weijun Wang, Ruijie Mao, Peng Chen	Officers College of PAP	B	Acc. Competitor
817	Thijs Kouwenhoven Hao Xue, Ruolin Xiong, Kewei Du	Xi'an Jiaotong-Liverpool University	B	Acc. Competitor
820	Daniel Vrinceanu Juan Amaya, Joel Gard, Theodore Houston	Texas Southern University	B	Acc. Competitor
822	Changlin Ding Shiqiang Zhao, Zhiqiao Wang, Xuanzhu Jin	Northwestern Polytechnical University	B	Acc. Competitor
837	Zhang Yuzhong Jian Yiran, Zhou Sicheng	Tongji University	B	Acc. Competitor
855	David Olsgaard Cole Sigler, Lauren Villafuerte, Daniel Camacho	Simpson College	B	Acc. Competitor
868	Anock Somadder Ovijit Chandrow, Sajied Shah Yousuf, Ishtiyak Mahadi	Shahjalal University of Science and Technology	B	Acc. Competitor
875	Jinjun Liang Yuxuan Wang, Yuchen Xu, Junyu Ma	Xian Jiaotong-Liverpool University	B	Acc. Competitor
880	Juan Camacho Castro Raquel García Bellés, Cristina Balsells Llord, Miquel Saucedo Cuesta	Universitat Autònoma de Barcelona	B	Acc. Competitor
882	Ramon Muñoz Tapia Jaime Del Pozo Ortiz, Tomás Fernández Martos, Pol Guijosa Araez	Universitat Autònoma de Barcelona	B	Acc. Competitor
898	Jayeeta Lahiri Siddharth Rajamohanan, Adith Sai A, Sarath Vijayan	University of Hyderabad	B	Acc. Competitor
907	D. S. Kshatri Animesh Kumar, Madiha Uzma Qazi, Jyotish Saha	Shri Shankaracharya Inst. of Prof. Mgmt. and Tech., Raipur	B	Acc. Competitor