

**The 2014 University Physics Competition  
Results Announcement – January 14, 2015**

We are very pleased to announce the results of the fifth 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 14, 15, & 16, 2014, analyzing an applied scenario using the principles of physics, and writing a formal paper describing their work.

In this year's competition 131 teams submitted papers for judging. 93 teams selected "Problem A - Circumbinary Planets" and 38 teams selected "Problem B – A Water Fountain."

For Problem A, the Gold Medal Winning Team was:

**Team 726: Gautam Rai, Sven Wasmus, & Maximilian Schallwig**  
**Institution: Jacobs University Bremen**  
**Faculty Sponsor: Peter Schupp**

For problem B, the Gold Medal Winning Team was:

**Team 807: Bikun Li, Zichao Yang, Yuan Li**  
**Institution: South University of Science and Technology of China**  
**Faculty Sponsor: Jun Yang**

Of the 131 paper submitted in the 2014 University Physics Competition, 2 teams (1.5%) were ranked as Gold Medal Winners, 23 teams (18%) were ranked as Silver Medal Winners, 36 teams (27%) were ranked as Bronze Medal Winners, and 70 teams (53%) were ranked as Accomplished Competitors.

We extend our sincerest congratulations to each of the 131 competing teams for their excellent work and their enthusiasm for physics!

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**Problem A - Circumbinary Planets**

<b>Team #</b>	<b>Sponsor/Students</b>	<b>Institution</b>	<b>Problem</b>	<b>Rank</b>
726	Peter Schupp Gautam Rai, Sven Wasmus, Maximilian Schallwig	Jacobs University Bremen	A	Gold Medal
719	Sow Chornng Haur Ng Kia Boon, Tang Wenjie Shawn, Wen Borui	National University of Singapore	A	Silver Medal
727	Paul So Wesley Toler, Austin Bradley, Ryan Pfeifle	George Mason University	A	Silver Medal
734	James Charbonneau Kevin (Yuliang) Shi, Steven (Xianchi) Meng, Kevin (Tingke) Shen	University of British Columbia	A	Silver Medal
747	Joseph Ribaudo Brittany Vanderhoof, Hope Murphy	Utica College	A	Silver Medal
749	Michael Waite Shouzhen Gu, Shun Da Suo, Wuhan Zhou	University of Waterloo	A	Silver Medal
754	Francesc Ferrer Anthony Grebe, Stella Schindler, Beth Bollinger	Washington University in Saint Louis	A	Silver Medal
756	Alfredo Aranda Jorge A. Torres-Espinosa, Julio Moreno-Virrueta, Luis Barajas-Lopez	Universidad de Colima	A	Silver Medal
758	David Morin Jaimal Ichharam, Patrick Komiske, Eric Metodiev	Harvard University	A	Silver Medal
759	David Poland Jacob Marks, Alexander Lee, Devin Cody	Yale University	A	Silver Medal
765	Kaihui Liu Cheng Guo, Weikang Shi, Jingyi Tang	Peking University	A	Silver Medal
766	John Hoffman Daniel Eilbott, Jonathan Cohn, Alexander Riley	University of Texas at Dallas	A	Silver Medal
776	Rick Van Kooten Johnathon Lowery, Josh Foster, Tom Dauer	Indiana University	A	Silver Medal
780	Peter Krieger Ramanjit Sohal, Hubert Lin, Tianchen Zhao	University of Toronto	A	Silver Medal
803	Jakub Zakrzewski Filip Ficek, Konrad Szymanski, Piotr Staron	Jagiellonian University in Krakow	A	Silver Medal
818	William D. Thacker John Cavin, Thomas Cavin, Nicholas Walker	Saint Louis University	A	Silver Medal
826	Kevin Lannon David Shaw, Patrick LeBlanc, Patrick Shields	University of Notre Dame	A	Silver Medal
703	Wang Sihui Yu Luyan, Fan Wenkai, Min Yimeng	Nanjing University	A	Bronze Medal
704	Sihui Wang Wending Zhao, Yihong Zhang, Li Du	Nanjing University	A	Bronze Medal
706	Robert Murawski Danielle Holz, Ian Lowry, Samuel Zorn	Drew University	A	Bronze Medal
710	Paul Kushner Abhinav Jindal, Darren Pereira, Armanpreet Pannu	University of Toronto	A	Bronze Medal
715	Daniel F. V. James Chris (Yuan Qi) Ni, Hiromitsu Sawaoka, Yuan Yao	University of Toronto	A	Bronze Medal
721	WeiDong Zhu Prajwal Niraula, Joseph Ghobrial, Sabin Pradhan	Saint Peter's University	A	Bronze Medal
723	Jianxin Li Wangfei Yang, Ruiqi Xu, Tongchuan Ma	Nanjing University	A	Bronze Medal
738	Gang Peng Yu Lu, Chen Ye, Jia-xin Li	National University of Defense Technology	A	Bronze Medal
741	Mateusz Krzyzosiak Shen Yisong, Yuan Zhihao, Liu Yutong	Shanghai Jiao Tong University	A	Bronze Medal

742	Edwin Greco Hunter Hakimian, Nicholas Lucas, Neil Hardy	Georgia Institute of Technology	A	Bronze Medal
744	Edwin Greco Silas Fradley, Susannah Doss, Jared Van Den Heuvel	Georgia Institute of Technology	A	Bronze Medal
745	Andrzej Kotlicki Anmol Jawandha, Koosha Rezaiezadeh, Pasindu Muthukuda	University of British Columbia	A	Bronze Medal
762	Sylvio May Austin Usselman, Joseph Roth, Tyler Antony	North Dakota State University	A	Bronze Medal
793	Channon Price Parker Whaley, Michael Saccone, Colin Latimer	University of Alaska Fairbanks	A	Bronze Medal
794	Wang Sihui Lian Zhen, Yi Weizhu, Tian Haopeng	Nanjing University	A	Bronze Medal
795	Xuejin Zhang Jiaan Qi, Haoran Su, Zhuwu Zheng	Nanjing University	A	Bronze Medal
796	Wenli Gao Jianbo Guo, Yanrong Song, Haichao Zhu	Nanjing University	A	Bronze Medal
810	Masa Ishigami Dylan Bruce, Brandon Blue, Chris Tiller	University of Central Florida	A	Bronze Medal
815	Daniel Vrinceanu Juan Amaya, Peter Doze, Eric Wilson	Texas Southern University	A	Bronze Medal
831	Jo-Anne Brown Dante Bencivenga, Rashad Bayramov	University of Calgary	A	Bronze Medal
834	David Lee Susan Alexis Brown, Rebecca Li, Sumin Kyoung	Gordon College	A	Bronze Medal
838	Monty Mola Ian Lauer, Marika Leitner, Enrique Guerrero	Humboldt State University	A	Bronze Medal
840	John Coroneus Huy Ho, Kenta Morimoto, Zach Omar Amrani	El Camino College	A	Bronze Medal
849	Suparna Roy Chowdhury Aditya Chowdhury, Subhajit Sinha, Sk Minhajur Rahaman	St. Xavier's College, Kolkata	A	Bronze Medal
702	Renata Zukanovich Funchi Everton Rufino Constantino, Silvio Jonas Junior, Otávio Vasques	São Paulo University	A	Acc. Competitor
711	Gary Frazier Joseph Burnett, Artem Bolshakov, Christopher Cormier	The University of Texas at Dallas	A	Acc. Competitor
714	Wang Xu Zexun Lin, Qian Song, Yunhao Yan	Nanjing University	A	Acc. Competitor
717	Reem Altuwirqi Fatimah Fayez Habis, Hibah Nabeel Khoja, Ameena Mohammed Al-Mehyawi	King Abdulaziz University	A	Acc. Competitor
718	Daniel F. V. James Zhi (Rain) Qi, Sayan Faraz, Noah Negin-Ulster	University of Toronto	A	Acc. Competitor
720	Wang Sihui Li Shutong, Sun Hanchao, Fan Zhouyou	Nanjing University	A	Acc. Competitor
722	Sihui Wang Zicheng Wang, Zhenqian Yang, Xudong Zhang	Nanjing University	A	Acc. Competitor
724	Raditya Weda Bomantara Marcelina Viana, Felix Utama Kosasih, Kristo Nugraha Lian	National University of Singapore	A	Acc. Competitor
725	Priscila Alves da Silva Guilherme de Sousa	Colégio Técnico de Lorena	A	Acc. Competitor
728	Orazov Gylychmammet Myradov Serdar, Atajanova Ogulnazik, Agahanova Bahar	Magtymguly Turkmen State University	A	Acc. Competitor
730	Orazov Gylychmammet Annayev Muhammetgeldi, Malikov Meylis, Apbasov Yhlas	Magtymguly Turkmen State University	A	Acc. Competitor
732	Phil Barbeau Austin Liu, Benjamin Suh, Louis Jincheng Xu	Duke University	A	Acc. Competitor

735	Wang Sihui Huang Haoyun, Chen Liyang, Yuan Zhiyi	Nanjing University	A	Acc. Competitor
737	Gang Peng De-yao Yu, Ye Cui, Si-wei Wang	National University of Defense Technology	A	Acc. Competitor
739	Gang Peng En-ruì Zhang, Ye-chen Wang, Da-qian Gu	National University of Defense Technology	A	Acc. Competitor
748	Daniel James Rainni Chen, Danny Luo, Joshua Efe	University of Toronto	A	Acc. Competitor
757	Chad Hanna Zhiyu Yin, Hsin-Jung Yu, Shixin Zhao	Pennsylvania State University	A	Acc. Competitor
768	Shimeng Feng Yaonan Jin, Boyuan Kong, Yu Shi	Shanghai Jiao Tong University	A	Acc. Competitor
769	Reem Altuwirqi Awsaf Awad Allah Al-Selami, Mysaa Ghassan Al-Saddiki, Safiah Ahmed Al-Zhrani	King Abdulaziz University	A	Acc. Competitor
771	Wenli Gao Cheng Shan, Shiping Cao, Ye Liu	Nanjing University	A	Acc. Competitor
773	Nirav Mehta Liam Fox, Kirsten Endresen, Connor Morehead	Trinity University	A	Acc. Competitor
774	John Lindner Michael Bush, Zane Thornburg, Nathaniel Moore	The College of Wooster	A	Acc. Competitor
775	Sergio Flores Francisco Ayala, Leonardo Javier Rodriguez Gutierrez, Sergio Gonzalez	The University of Texas at El Paso	A	Acc. Competitor
778	Mateusz Krzyzosiak Yu Guangting, Gao Junlong, Zhu Chengcheng	Shanghai Jiaotong University	A	Acc. Competitor
779	Pibowei Okubo Zion Pibowei, Osili Somtochukwu	Renaissance University	A	Acc. Competitor
783	Changcheng Zheng Shuhui He, Rui He, Hang Liu	Xi'an Jiaotong-Liverpool University	A	Acc. Competitor
785	Andrew Frey Veronica Fieldhouse, Sarah Campbell, Steven Casson	University of Winnipeg	A	Acc. Competitor
786	Ju Guoxing Zhou Haotian, Tang Ta, Yi Changhao	Nanjing University	A	Acc. Competitor
787	Jun Yang Zimu Li, Qiangsheng Lu, Tong Liang	South University of Science and Technology of China	A	Acc. Competitor
789	Monika Kress Chris White, Bradley Thompson, Branden Webster	San Jose State University	A	Acc. Competitor
790	Jinjun Liang Ran Lu, Zhenyu Wang, Dian Jiao	Xi'an Jiaotong-Liverpool University	A	Acc. Competitor
792	Jinjun Liang Jianqing Zheng, Yiming Zhang, Wei Xu	Xi'an Jiaotong-Liverpool University	A	Acc. Competitor
799	Adam Lidz Mohammad Alhejji, Bryan Fichera	University of Pennsylvania	A	Acc. Competitor
801	Andrew Meyertholen Subin Kim, Jahnvi Shah, Luke Vandenbosch	University of Toronto - St. George	A	Acc. Competitor
804	Philip T Spickler Will Gaulden, Nathan Flory, Jim Murtha	Bridgewater College	A	Acc. Competitor
808	James Alsup Matthew Sutter, Bayarjavkhlan Batbaatar, Patrick Ross	University of Michigan-Flint	A	Acc. Competitor
811	Deva O'Neil Matthew Wampler, Sang Yun Kim, Kamal Kaddoura	Bridgewater College	A	Acc. Competitor
816	W. Brian Lane Jasmine Byard, Yahydia Iniguez	Jacksonville University	A	Acc. Competitor
817	Matthew Kleban Charles Belina, Kevin Carter, Daniel Mao	New York University	A	Acc. Competitor

820	David Olsgaard Holly Baiotto, Ian Appelgate, Zach Gaddy	Simpson College	A	Acc. Competitor
821	David Olsgaard Tony Saucedo, Taylor Jurgensen, Henry Oberman	Simpson College	A	Acc. Competitor
823	Aaron Santos Rachel Rice, Zach Lindeberg, JJ Hansen	Simpson College	A	Acc. Competitor
825	David Lee Haonan Yan, Jiaqi Qiao, Weiqiu You	Gordon College	A	Acc. Competitor
829	Cyrille Rosset Truong Tuan Ngoc, Hoang Thanh Dat, Hoang Hoai Nam	University of Science and Technology of Hanoi	A	Acc. Competitor
835	Jason Goodman Ryan Farber, Macgregor Sullivan, Justin Alfonse	Wheaton College (Norton, MA)	A	Acc. Competitor
839	Monty Mola Garrett Benson, Lindsey Manning, Cameron Trujillo	Humboldt State University	A	Acc. Competitor
844	Jay Hubisz Joseph Cohen, Andrew Ballard, Riley Gourde	Syracuse University	A	Acc. Competitor
845	Majid Taraz Behzad Bojnordi Arbab, Atefeh Mirzabeigi, Amir Kayone Lashkari	Bahonar University of Kerman	A	Acc. Competitor
846	Philip T. Spickler Jose Corona, Sean Fishgold, Ethan McBryde	Bridgewater College	A	Acc. Competitor
848	Chris Matzner Vismay Shah, Victor Chan	University of Toronto	A	Acc. Competitor
850	James Ezema Egbo Daniel Okwudili, Nkele Chinecherem Agnes, Nwaruh Blessing Chukwubuikem	University of Nigeria Nsukka	A	Acc. Competitor
851	Hao Yu Menglong He, Lu Wang, Yichen Huang	Xi'an Jiaotong-Liverpool University	A	Acc. Competitor
852	Mario Affatigato Collin Wilkinson, Dahlia Baker, Arron Potter	Coe College	A	Acc. Competitor

#### Problem B - A Water Fountain

Team #	Sponsor/Students	Institution	Problem	Rank
807	Jun Yang Bikun Li, Zichao Yang, Yuan Li	South University of Science and Technology of China	B	Gold Medal
705	Sihui Wang Enze Cheng, Ziheng Zhou, Haoyang Li	Nanjing University	B	Silver Medal
743	Edwin Greco Casey Trimble, Robert Leonard, Conner Herndon	Georgia Institute of Technology	B	Silver Medal
752	Francesc Ferrer Zhengdao Chen, Fan Chen, Pengning Chao	Washington University in Saint Louis	B	Silver Medal
763	Min-Kyo Seo Erwin Handoko Tanin, Duong Dinh	KAIST	B	Silver Medal
791	Jinjun Liang Chenxia Gu, Xianbin Hong, Boya Li	Xi'an Jiaotong-Liverpool University	B	Silver Medal
824	David Joss Qing Lan, Ramis Tahmasebi	University of Liverpool	B	Silver Medal
837	Mateusz Krzyzosiak Liang Shucheng, Jiang Weifu, Dong Yingda	Michigan-Shanghai Jiao Tong Joint Institute	B	Silver Medal
708	Roderich Tumulka Zheng Ju, Eric Mendelsohn, Leo Kozachkov	Rutgers University-New Brunswick	B	Bronze Medal
712	Xinlian Luo Weibo Chao, Huang Shi-hua, Liang Shuang	Nanjing University	B	Bronze Medal
731	John Deford Colby Judd, Alisa Mann, Deric Session	University of Utah	B	Bronze Medal

733	Gang Peng Han-qing Liu, Ji-ze Han, Qiu-wei Yu	National University of Defense Technology	B	Bronze Medal
740	Gang Peng Ji-ru Zhou, Jun-han Li, Zhi-gong Yang	National University of Defense Technology	B	Bronze Medal
753	Sihui Wang Hui Zhao, RuiKai Xie, Sheng Zhang	Nanjing University	B	Bronze Medal
755	Francesc Ferrer Alexander J. Lu, Tyler Ellison, Arian Jadbabaie	Washington University in Saint Louis	B	Bronze Medal
761	Sylvio May Wei Kang Lim, Mitchell Zubich, Lane Morrison	North Dakota State University	B	Bronze Medal
777	Monika Kress John Kam, Ryan Sudhakaram, Eric Freda	San Jose State University	B	Bronze Medal
800	Weidong Luo Chang Liu, Hao Geng, Zhetao Jia	Shanghai Jiao Tong University	B	Bronze Medal
813	Ronald Kumon Alexis Siegel, Sally Dagher, Benjamin Colavecchia	Kettering University	B	Bronze Medal
842	Sudipa Kirtley Elizabeth Melton, Blake Holeman, Abby Schendt	Rose-Hulman Institute of Technology	B	Bronze Medal
716	Reem Altuwirqi Rasha M. AlSaggaf, Suaad A. AlSakkaf, Fatima Salim Barrubeeah	King Abdulaziz University	B	Acc. Competitor
729	Orazov Gylychmammet Seyidov Palvan, Toyjanov Mekan, Yazberdiyev Dayanch	Magtymguly Turkmen State University	B	Acc. Competitor
736	Gang Peng Man-chao Zhang, Chao-yang Peng, Lin-ze He	National University of Defense Technology	B	Acc. Competitor
751	Cailin Wang Junshu Chen, Zhiyu Xiao, Yao Sun	South University of Science and Technology of China	B	Acc. Competitor
764	Daniel James Mark Meschino, Suhas Chalotra, Josh Boutilier	University of Toronto	B	Acc. Competitor
767	Chen Yanbin Chen Jin, Wang Wei, Zhang Shuai	Nanjing University	B	Acc. Competitor
770	David Brookes Liev Birman, Andres Arango, Laura Pomar	Florida International University	B	Acc. Competitor
781	Changcheng Zheng Yifang Xu, Qingjia Liu, Xuelin Wang	Xi'an Jiaotong-Liverpool University	B	Acc. Competitor
784	Henri Jansen Evan Peters, Keenan Cabrera, Kaylen Groberg	Oregon State University	B	Acc. Competitor
797	Chien-Wen Hwang Chia-Wei Teng, Wei-Jie Yan, Jian-Qing Li	National Kaohsiung Normal University	B	Acc. Competitor
805	Tycho Sleator Nushkia Chamba, Roy Rinberg, Felix Feist	New York University	B	Acc. Competitor
806	Kisa Ranasinghe Shawn Phillips, Logan Britt, Derrick Pruitt	Southern Polytechnic State University	B	Acc. Competitor
822	Aaron Santos Kyle Jensen, Marcus Varnum, Kellan Kremer	Simpson College	B	Acc. Competitor
828	Sheng-Jun Wu Yi-Dan Zhu, Kong-Tao Chen, Ke-Jing Zhu	Nanjing University	B	Acc. Competitor
833	Jason Goodman Ben Cutler, Samantha Yager, Sean Weinstein	Wheaton College (Norton, MA)	B	Acc. Competitor
836	Matthew Beaky Arnold Schwemmlin, Sarah Roberts, Jason Ray-Alfaro	Juniata College	B	Acc. Competitor
841	Marina Artuso Stephen Sorokanich, Thomas Badman, Samantha Usman	Syracuse University	B	Acc. Competitor
843	Robert Fisher Matthew Wise, Peter Takahashi, Kiersten Nunes	University of Massachusetts Dartmouth	B	Acc. Competitor