

**The 2011 University Physics Competition
Results Announcement – December 19, 2011**

We are very pleased to announce the results of the second 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 4, 5 & 6 analyzing an applied scenario using the principles of physics, and writing a formal paper describing their work.

During this year 77 teams submitted papers for judging. 28 teams selected “Problem A - Space Tower Launch Costs” and 49 teams selected “Problem B - Shooting a Basketball for Three Points.”

For Problem A, the Gold Medal Winning Team was:

Team 352: Christopher Frye, Jie Liang, & Ryan Hardy
Institution: University of Central Florida
Team Advisor: Costas Efthimiou

For problem B, the Gold Medal Winning Team was:

Team 379: Rebecca Schutzengel, Patrick Varin, & Brendan Quinlivan
Institution: F. W. Olin College of Engineering
Team Advisor: Yevgeniya V. Zastavker

Of the 77 teams in the 2011 University Physics Competition, 2 teams (3%) were ranked as Gold Medal Winners, 14 teams (18%) were ranked as Silver Medal Winners, 21 teams (27%) were ranked as Bronze Medal Winners, and 40 teams (52%) were ranked as Accomplished Competitors. The 2011 University Physics Competition received official sponsorship from the American Physical Society and American Astronomical Society, which provided prizes for the gold medal winning teams.

We extend our sincerest congratulations to each of the 77 competing teams for their excellent work and their enthusiasm for physics!

Kelly S. Cline
Carroll College; Helena, MT
Director of the 2011 University Physics Competition, director@uphysicsc.com
www.uphysicsc.com

Problem A - Space Tower Launch Costs

| Team # | Advisor/Students | Institution | Problem | Rank |
|--------|---|--|---------|-------------------------|
| 352 | Costas Efthimiou Christopher Frye, Jie Liang, & Ryan Hardy | University of Central Florida | A | Gold Medal |
| 304 | Mark Neubauer Zhaoqi Leng, Ying-Ting Lin, & Tsung-Lin Hsieh | University of Illinois at Urbana and Champaign | A | Silver Medal |
| 305 | Charles Benesh Humaira Taz & Yiran Chen | Wesleyan College | A | Silver Medal |
| 336 | Carl Gwinn Florian Klimm, Johannes Lange, & Alexander Jahn | University of California at Santa Barbara | A | Silver Medal |
| 343 | Dr. Denise Gabuzda Anthony Kiely, Liam O'Shaughnessy, & Cormac McAuliffe | University College Cork | A | Silver Medal |
| 370 | Winston Roberts Jesse Raffield, Ashley Huff, & Derrick Vangennep | Florida State University | A | Silver Medal |
| 301 | Dr. Dipangkar Dutta Prajwal Mohanmurthy, Benjamin Lewis, & David Reed | Mississippi State University | A | Bronze Medal |
| 323 | Alfredo Aranda Manuel A. Buen-Abad-Najar, Omar A. Ruiz-Macias, & German Gutierrez-Hernandez | Universidad de Colima | A | Bronze Medal |
| 329 | Channon Price Beau Bellamy, Martin Harrington, & Stanley Edwin | University of Alaska Fairbanks | A | Bronze Medal |
| 339 | N. M. Ravindra Steve Susanibar, Jerry Martinez, & David Cunningham | New Jersey Institute of Technology | A | Bronze Medal |
| 359 | Dr. John Shaw Andrew Stroud, Josh Wilson, & Daniel Ballivian | Louisiana Tech University | A | Bronze Medal |
| 360 | Adele Poynor Samuel Knarr, Robert Pettit, & Samuel Finder | Allegheny College | A | Bronze Medal |
| 362 | Ronald Kumon Andrew Brinks, Jacob Crabill, & April Weber | Kettering University | A | Bronze Medal |
| 369 | David Olsgaard Jacob Johnson, Laura Collins, & Warren Drucker | Simpson College | A | Bronze Medal |
| 303 | Reem M. Altuwirqi Lujain Almarhabi, Maha saeed AlAmoudi, & Ghaliyah Ahmed Aljabarti | King Abdulaziz University | A | Accomplished Competitor |
| 306 | Charles Benesh Ashley Jackson & Rebecca Navarre | Wesleyan College | A | Accomplished Competitor |
| 335 | Grant R. Denn Eric Fisher, Renee Johnson, & Emmanuel Sequeira | Metropolitan State College of Denver | A | Accomplished Competitor |
| 340 | N. M. Ravindra Lucas Lamb & Adam Hubbi | New Jersey Institute of Technology | A | Accomplished Competitor |
| 341 | Dr. Linda Winkler Shouvik K. Bhattacharya, Murshid Saqlin, & Meredith McLinn | Minnesota State University Moorhead | A | Accomplished Competitor |
| 345 | Esmaeil Ebrahimi Behzad Bojnordi Arbab, Masood Valipour, & Saeed Izadshenas | Bahonar University of Kerman | A | Accomplished Competitor |
| 363 | Michael Allen Kyle Schademan, Gordon Stack, & Jesse Miller | Washington State University | A | Accomplished Competitor |
| 366 | José Silvério Edmundo Ge Cássio dos Santos Sousa, Márcio Araújo de Paiva Filho, & Felipe Vincent Yannik Romero Pereira | Instituto Tecnológico de Aeronáutica | A | Accomplished Competitor |
| 373 | David Branning Brandon Clary, Bholu Uprety, & Stefan Timiras | Trinity College | A | Accomplished Competitor |
| 374 | Channon Price Thomas Edwards & Hannah Brink | University of Alaska Fairbanks | A | Accomplished Competitor |
| 380 | Ben Bousquet Benjamin Rector, Justin Heine, & Pajtim Emerllahu | Wartburg College | A | Accomplished Competitor |
| 381 | Dr. Gildardo Rivas David Hernandez Sanchez, German Rodriguez Ortiz, & Karina De la Torre | Universidad Autonoma de Ciudad Juarez | A | Accomplished Competitor |

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| 382 | Adele Poynor Marla Sacks, Bryan Chavez, & Michael Hajduk | Allegheny College | A | Accomplished Competitor |
| 383 | Laird Kramer Ariana Alvarez, Melissa Chiarella, & George Shaeffer | Florida International University | A | Accomplished Competitor |

Problem B - Shooting a Basketball for Three Points

| Team # | Advisor | Institution | Problem | Rank |
|---------------|--|--|----------------|-------------------------|
| 379 | Yevgeniya V. Zastavker Rebecca Schutzensgel, Patrick Varin, & Brendan Quinlivan | F. W. Olin College of Engineering | B | Gold Medal |
| 308 | Paul Kwiat Cory Alford, Guannan Liu, & Scott Huber | University of Illinois: Urbana-Champaign | B | Silver Medal |
| 309 | Jong Anly Tan Erwin Handoko Tanin, Limiardi Eka Sancerio, & Albert Datui | STKIP SURYA | B | Silver Medal |
| 310 | Prof. Dr. Herbert Loehner Arjan Boerma, Job Feldbrugge, & Remko Klein | University of Groningen | B | Silver Medal |
| 313 | Witold Skiba Po-Yi Ho, Steven Zwick, & Pearson Miller | Yale University | B | Silver Medal |
| 318 | Chang Sheh Lit Wong Songhan, Kwong Chang Jian, & Law Yun Zhi | National University of Singapore | B | Silver Medal |
| 319 | Chang Sheh Lit Ng Kia Boon, Kwang Siu Yi, & Shawn Tang Wenjie | National University of Singapore | B | Silver Medal |
| 344 | Sihui Wang Mingren Shen, Hongyu Zhu, & Xu Chen | Nanjing University | B | Silver Medal |
| 351 | Prof. Henry Greenside Joshua Loyal, Peter Zhu, & Zongjin Qian | Duke University | B | Silver Medal |
| 357 | Sihui Wang Chang Liu, Ziwen Liu, & Yaxiong Liu | Nanjing University | B | Silver Medal |
| 307 | Alexander Maloney Alex Cowan, Bohdan Kulchytskyy, & Alex May | McGill University | B | Bronze Medal |
| 311 | Andreas Dewanto Guan Yilun Aaron, Lin Mao, & Nguyen Duy Quang | National University of Singapore | B | Bronze Medal |
| 322 | Christopher King Leo Byun & Mathew Chamberlain | Northeastern University | B | Bronze Medal |
| 328 | Keith Bonin Claire McLellan, Soham Banerjee, & Daniel Gallagher | Wake Forest University | B | Bronze Medal |
| 331 | Dr. Scott Schneider Levente Dojcsak, Jamie Maclennan, & Kristen Dage | Lawrence Technological University | B | Bronze Medal |
| 342 | Catherine Mader Caitlin Taylor, Matthew Eiles, & Andrew McCubbin | Hope College | B | Bronze Medal |
| 349 | Professor George Gollin Suerfu, Brian Wang, & Christopher Lam | University of Illinois at Urbana-Champaign | B | Bronze Medal |
| 350 | Steven Shapiro Nolan Dwyer, Kiel Williams, & Emma Taylor | Guilford College | B | Bronze Medal |
| 353 | Costas Efthimiou Will Richardson, Adam Wearne, & Jonathan Lee | University of Central Florida | B | Bronze Medal |
| 356 | Costas Efthimiou Candy Reid, Miller Hederi, & Angel Mancebo | University of Central Florida | B | Bronze Medal |
| 368 | Marco Pallavicini Alessandro Georgoudis, Alessio Calzona, & Giovanni Balduzzi | Università degli Studi di Genova | B | Bronze Medal |
| 371 | Jeremy Dodd Matei Ionita, Nilay Kumar, & Yifei Zhao | Columbia University | B | Bronze Medal |
| 376 | Sylvio May Ahis Shrestha, Marne Johnson, & Brandon Johnson | North Dakota State University | B | Bronze Medal |
| 302 | Reem Altwuirqi Deema Basodan | King Abdul Aziz University | B | Accomplished Competitor |
| 312 | Professor Naomi Makins Bryce Fore, Meredith Staub, & William Alexander | University of Illinois at Urbana-Champaign | B | Accomplished Competitor |
| 314 | Professor Mats Selen Lingyi Kong, Richard Schonberg, & Aswin Sivaraman | University of Illinois at Urbana-Champaign | B | Accomplished Competitor |

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| 315 | Dr. Michael Nolan Matt Lewis, David Pede, & John Timlin | Millersville University | B | Accomplished Competitor |
| 317 | Dezso Varga Milan Janosov, Istvan Kaposvari, & Mihaly Furedi | Eotvos Lorand University | B | Accomplished Competitor |
| 320 | Chang Sheh Lit Wu Zhen Zhou, Liew Ji Shen, & Tan Da Yang | National University of Singapore | B | Accomplished Competitor |
| 321 | Prof. Henry Greenside Farzan Beroz, Shreyan Sen, & Spencer Lewis | Duke University | B | Accomplished Competitor |
| 324 | Haijun Wang Jing Guo, Zhaochen Duan, & Chang Liu | Jilin University | B | Accomplished Competitor |
| 325 | Winston Roberts Anthony Hazel, Zach McDargh, & Luis Barrera | Florida State University | B | Accomplished Competitor |
| 327 | Roy Clarke Zeyin Zhang & Xingsi Zhang | University of Michigan | B | Accomplished Competitor |
| 330 | Simon Salamon Bruno Loureiro | King's College London | B | Accomplished Competitor |
| 332 | Jorge Ballester Dustin Burgardt, Jianlei Chen, & Andrew Wayman | Emporia State University | B | Accomplished Competitor |
| 338 | Dr Carolin Crawford Tudor Cristea-Platon | University of Cambridge | B | Accomplished Competitor |
| 346 | Chang Sheh Lit Tan Hong Qi, Lee Kang Hao, & Seah Yi-lin | National University of Singapore | B | Accomplished Competitor |
| 347 | Dr. John Shaw Nishan Khatri, Anil Thapa, & Nishi Mehta | Louisiana Tech University | B | Accomplished Competitor |
| 348 | Dr. John Shaw John Trischler, Michael Pruden, & John Coody | Louisiana Tech University | B | Accomplished Competitor |
| 354 | Costas Efthimiou Kevin Bertrand, Tommy Lee, & Joseph Kaile | University of Central Florida | B | Accomplished Competitor |
| 355 | Costas Efthimiou Jonathan Tillett, Alex Greutman, & Cameron Glasscock | University of Central Florida | B | Accomplished Competitor |
| 358 | Ying-Hui Kuang Li-Gong Han, Qi Liu, & Yang Liu | Southeast University | B | Accomplished Competitor |
| 365 | Richard Robinett Qishun Tang, Zhiyan Wang, & Songjie Xue | Penn State | B | Accomplished Competitor |
| 367 | Marco Pallavicini Giovanni Filippi, Flavio Ronetti, & Roberto Manuzzo | Università degli Studi di Genova | B | Accomplished Competitor |
| 372 | David Branning Steve Petkovsek, Lorenzo Sewanan, & Adam Katcher | Trinity College | B | Accomplished Competitor |
| 375 | Frank Wolfs Theodore Lane, Jeffrey Vankerhove, & Alex Kurland | University of Rochester | B | Accomplished Competitor |
| 377 | Gildardo Rivas, PhD Miguel Angel Gonzalez, Efrain Mendez Cerda, & Lesly Selene Hernandez | Universidad Autonoma de Ciudad Juarez | B | Accomplished Competitor |
| 385 | Laird Kramer Christian Riviera & Steven Castillo | Florida International University | B | Accomplished Competitor |
| 386 | N M Ravindra Utkarsh Raj, Michael Williams, & Adam Feehan | New Jersey Institute of Technology | B | Accomplished Competitor |