## 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

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www.uphysicsc.com

## **Problem A - Space Tower Launch Costs**

	Advisor/Students	Institution	Problem	
352	Costas Efthimiou	University of Central Florida	Α	Gold Medal
204	Christopher Frye, Jie Liai Mark Neubauer	University of Illinois at Urbana and Champaign	٨	Silver Medal
304	Zhaoqi Leng, Ying-Ting L	· · · · · · · · · · · · · · · · · · ·	Α	Silver Medal
305	Charles Benesh	Wesleyan College	Α	Silver Medal
303	Humaira Taz & Yiran Che	_	^	Silver Medal
336	Carl Gwinn	University of California at Santa Barbara	Α	Silver Medal
330		Lange, & Alexander Jahn	^	Silver Medai
343	Dr. Denise Gabuzda	University College Cork	Α	Silver Medal
343		naughnessy, & Cormac McAuliffe	, ,	Silver Medai
370	Winston Roberts	Florida State University	Α	Silver Medal
0.0		off, & Derrick Vangennep		
301	Dr. Dipangkar Dutta	Mississippi State University	Α	Bronze Medal
	• =	Benjamin Lewis, & David Reed		
323	Alfredo Aranda	Universidad de Colima	Α	Bronze Medal
	Manuel A. Buen-Abad-N	ajar, Omar A. Ruiz-Macias, & German Gutierrez-He	rnandez	
329	Channon Price	University of Alaska Fairbanks	Α	Bronze Medal
	Beau Bellamy, Martin Ha	arrington, & Stanley Edwin		
339	N. M. Ravindra	New Jersey Institute of Technology	Α	Bronze Medal
	Steve Susanibar, Jerry M	lartinez, & David Cunningham		
359	Dr. John Shaw	Louisiana Tech University	Α	Bronze Medal
	Andrew Stroud, Josh Wi	lson, & Daniel Ballivian		
360	Adele Poynor	Allegheny College	Α	Bronze Medal
	Samuel Knarr, Robert Pe	ttit, & Samuel Finder		
362	Ronald Kumon	Kettering University	Α	Bronze Medal
	Andrew Brinks, Jacob Cr	abill, & April Weber		
369	David Olsgaard	Simpson College	Α	Bronze Medal
	Jacob Johnson, Laura Co			
303	Reem M. Altuwirqi	King Abdulaziz University	Α	Accomplished Competitor
	Lujain Almarhabi & Mah			
306	Charles Benesh	Wesleyan College	Α	Accomplished Competitor
	Ashley Jackson & Rebeco			
335	Grant R. Denn	Metropolitan State College of Denver	Α	Accomplished Competitor
	· ·	on, & Emmanuel Sequeira		
340	N. M. Ravindra	New Jersey Institute of Techology	Α	Accomplished Competitor
	Lucas Lamb & Adam Hul			
341	Dr. Linda Winkler	Minnesota State University Moorhead	Α	Accomplished Competitor
2.45	· · · · · · · · · · · · · · · · · · ·	, Murshid Saqlin, & Meredith McLinn		A 11 10 11
345	Esmaeil Ebrahimi	Bahonar University of Kerman	Α	Accomplished Competitor
262	=	Masood Valipour, & Saeed Izadshenas	٨	Assamplished Competitor
363	Michael Allen	Washington State University	Α	Accomplished Competitor
266	Kyle Schademan, Gordon	in Stack, & Jesse Miller le Instituto Tecnológico de Aeronáutica	٨	Accomplished Competitor
366		, Márcio Araújo de Paiva Filho, & Felipe Vincent Yar	A nik Romar	Accomplished Competitor
373	David Branning	Trinity College	A	Accomplished Competitor
3/3	Brandon Clary, Bhola Up		A	Accomplished Competitor
374	Channon Price	University of Alaska Fairbanks	Α	Accomplished Competitor
374			^	Accomplished competitor
380	Thomas Edwards & Hannah Brink  80 Ben Bousquet Wartburg College A Accomplished C			
300	· · · · · · · · · · · · · · · · · · ·	Heine, & Pajtim Emerllahu	, ·	Accomplished Competitor
381	Dr. Gildardo Rivas	Universidad Autonoma de Ciudad Juarez	Α	Accomplished Competitor
551		ez, German Rodriguez Ortiz, & Karina De la Torre		
		,		

	lele Poynor arla Sacks, Bryan Chave	Allegheny College	Α	Accomplished Competitor
383 Lai	ird Kramer	Florida International University hiarella, & George Shaeffer	Α	Accomplished Competitor

## Problem B - Shooting a Basketball for Three Points

Team #	Advisor	Institution	Problem	Rank
379	Yevgeniya V. Zastavker	F. W. Olin College of Engineering	В	Gold Medal
	<del>-</del>	rick Varin, & Brendan Quinlivan		
308	Paul Kwiat	University of Illinois: Urbana-Champaign	В	Silver Medal
200	Cory Alford, Guannan Liu		D	Cilora NA adal
309	Jong Anly Tan	STKIP SURYA	В	Silver Medal
210		niardi Eka Sancerio, & Albert Datui	В	Silver Medal
310	Prof. Dr. Herbert Loehner Arjan Boerma, Job Feldbr		D	Silver Medal
313	Witold Skiba	Yale University	В	Silver Medal
313	Po-Yi Ho, Steven Zwick, 8	•	Ь	Silver Medal
318	Chang Sheh Lit	National University of Singapore	В	Silver Medal
	Wong Songhan, Kwong C			
319	Chang Sheh Lit	National University of Singapore	В	Silver Medal
	Ng Kia Boon, Kwang Siu Y			
344	Sihui Wang	Nanjing University	В	Silver Medal
	Mingren Shen, Hongyu Zh	nu, & Xu Chen		
351	Prof. Henry Greenside	Duke University	В	Silver Medal
	Joshua Loyal, Peter Zhu, 8	& Zongjin Qian		
357	Sihui Wang	Nanjing University	В	Silver Medal
	Chang Liu, Ziwen Liu, & Y	axiong Liu		
307	Alexander Maloney	McGill University	В	Bronze Medal
	Alex Cowan, Bohdan Kulo	•		
311	Andreas Dewanto	National University of Singapore	В	Bronze Medal
	Guan Yilun Aaron, Lin Ma			
322	Christopher King	Northeastern University	В	Bronze Medal
	Leo Byun & Mathew Char		_	
328	Keith Bonin	Wake Forest University	В	Bronze Medal
224		anerjee, & Daniel Gallagher		5
331	Dr. Scott Schneider	Lawrence Technological University	В	Bronze Medal
2.42	<u> </u>	Maclennan, & Kristen Dage	D	Duana Adadal
342	Catherine Mader	Hope College	В	Bronze Medal
240		iles, & Andrew McCubbin	D	Bronze Medal
349	Suerfu, Brian Wang, & Ch	University of Illinois at Urbana-Champaign	В	Broffze Medal
350	Steven Shapiro	Guilford College	В	Bronze Medal
330	Nolan Dwyer, Kiel Willian		Ь	BIOIIZE MEGAI
353	Costas Efthimiou	University of Central Florida	В	Bronze Medal
333	Will Richardson, Adam W		Ь	BIOIIZE WIEdai
356	Costas Efthimiou	University of Central Florida	В	Bronze Medal
330	Candy Reid, Miller Heder			Bronze Weddi
368	Marco Pallavicini	Università degli Studi di Genova	В	Bronze Medal
		Alessio Calzona, & Giovanni Balduzzi		
371	Jeremy Dodd	Columbia University	В	Bronze Medal
	Matei Ionita, Nilay Kumai	•		
376	Sylvio May	North Dakota State University	В	Bronze Medal
	Ahis Shrestha, Marne Joh	nson, & Brandon Johnson		
302	Reem Altwuirqi	King Abdul Aziz University	В	<b>Accomplished Competitor</b>
	Deema Basodan			
312	Professor Naomi Makins	University of Illinois at Urbana-Champaign	В	Accomplished Competitor
	Bryce Fore, Meredith Sta	ub, & William Alexander		
314	Professor Mats Selen	University of Illinois at Urbana-Champaign	В	Accomplished Competitor
	Lingyi Kong, Richard Scho	nberg, & Aswin Sivaraman		

315		illersville University	В	Accomplished Competitor
317	Matt Lewis, David Pede, & Jo Dezso Varga Eo	official in the state of the st	В	Accomplished Competitor
	Milan Janosov, Istvan Kaposv	-		,
320		ational University of Singapore	В	Accomplished Competitor
	Wu Zhen Zhou, Liew Ji Shen,	=		
321		uke University	В	Accomplished Competitor
	Farzan Beroz, Shreyan Sen, 8	•		
324	, .	in University	В	Accomplished Competitor
	Jing Guo, Zhaochen Duan, &			
325		orida State University	В	Accomplished Competitor
	Anthony Hazel, Zach McDarg			
327		niversity of Michigan	В	Accomplished Competitor
	Zeyin Zhang & Xingsi Zhang			
330	Simon Salamon Kir Bruno Loureiro	ng's College London	В	Accomplished Competitor
332	Jorge Ballester En	nporia State University	В	Accomplished Competitor
	Dustin Burgardt, Jianlei Chen	n, & Andrew Wayman		
338	_	niversity of Cambridge	В	Accomplished Competitor
	Tudor Cristea-Platon	,		
346	Chang Sheh Lit Na	ational University of Singapore	В	Accomplished Competitor
	Tan Hong Qi, Lee Kang Hao, 8	& Seah Yi-lin		
347	Dr. John Shaw Lo	ouisiana Tech University	В	Accomplished Competitor
	Nishan Khatri, Anil Thapa, &	Nishi Mehta		
348	Dr. John Shaw Lo	ouisiana Tech University	В	Accomplished Competitor
	John Trischler, Michael Prude	en, & John Coody		
354	Costas Efthimiou Ur	niversity of Central Florida	В	Accomplished Competitor
	Kevin Bertrand, Tommy Lee,	& Joseph Kaile		
355	Costas Efthimiou Ur	niversity of Central Florida	В	Accomplished Competitor
	Jonathan Tillett, Alex Greutm	nan, & Cameron Glasscock		
358		outheast University	В	Accomplished Competitor
	Li-Gong Han, Qi Liu, & Yang L	_iu		
365		enn State	В	Accomplished Competitor
	Qishun Tang, Zhiyan Wang, &			
367		niversità degli Studi di Genova	В	Accomplished Competitor
	Giovanni Filippi, Flavio Ronet			
372	David Branning Tri		В	Accomplished Competitor
	Steve Petkovsek, Lorenzo Sev			
375		niversity of Rochester	В	Accomplished Competitor
	Theodore Lane, Jeffrey Vank	•		
377	,	niversidad Autonoma de Ciudad Juarez	В	Accomplished Competitor
		n Mendez Cerda, & Lesly Selene Hernandez		
385		orida International University	В	Accomplished Competitor
	Christian Riviera & Steven Ca		_	
386		ew Jersey Institute of Technology	В	Accomplished Competitor
	Utkarsh Raj, Michael William	ns, & Adam Feehan		