

# Meeting-at-a-Glance

*Meeting-at-a-Glance includes sessions, workshops, committee meetings and other events, including luncheons, Exhibit Hall hours and snacks, plenary sessions, and receptions. All rooms will be at the Ontario Convention Center, unless otherwise noted. Workshops on Saturday and Sunday will be at **Cal Poly Pomona**.*

## FRIDAY, Feb. 3

6–8 p.m.

Pre-registration Pickup

North Lobby

## SATURDAY, Feb. 4

7 a.m.–4 p.m.

### REGISTRATION

North Lobby

8 a.m.–12 p.m.

W06

Supernova Physics: Individualized Investigations Using DS9, Chandra's Public Archives

Bldg. 3–2004

8 a.m.–12 p.m.

W07

In-Class Polling for All Learners (iPAL) Project

3–2016

8 a.m.–12 p.m.

W09

Teaching & Learning Electromagnetism in Intro Physics

8–210

8 a.m.–12 p.m.

W11

Make and Take Your Own Photogate/Lasergate

3–2011

8 a.m.–5 p.m.

W01

Cal Poly's Physics Lecture Demonstrations

8-241

8 a.m.–5 p.m.

W02

Graphing Analysis of Student Data With AP B Examples

3–2618

8 a.m.–5 p.m.

W05

Physics by Design

3–2628

9 a.m.–4:45 p.m.

Two-Year College Tandem Meeting

offsite

10 a.m.–5:30 p.m.

Wine Country Tour in Temecula

offsite

1–4 p.m.

T02

Teaching Statistical and Thermal Physics

3–2011

1–5 p.m.

W12

Teaching About Radioactivity

8–210

1–5 p.m.

W13

Hands On Activities for Teaching About Light

3–2016

1–5 p.m.

W14

Photons and Phonons in the Advanced Lab

8–211

1–5 p.m.

W16

Using NASCAR to Teach Physics

offsite

3:30–5:30 p.m.

New Area Chairs Orientation

100B

4:30–5:30 p.m.

New Board Members Orientation

101

5:30–7:30 p.m.

E. Leonard Jossem Dinner

Ballroom A

7:30–10 p.m.

AAPT Executive Board I

101

## SUNDAY, Feb. 5

7 a.m.–4 p.m.

### REGISTRATION

North Lobby

7:30–10 a.m.

Publications Committee

107A

8 a.m.–12 p.m.

W21

Energy and the Environment Hands-On Activities

Bldg. 3–2615

8 a.m.–12 p.m.

W22

Approaching Quantum Mechanics by Playing with Polarization

3–2628

8 a.m.–12 p.m.

W23

CASTLE

3–2004

8 a.m.–12 p.m.

W25

NTIPERs: Research-based Reasoning Tasks for Intro Mechanics

3–2623

8 a.m.–12 p.m.

W28

Modeling Amusement Park Physics with EJS Simulations & Tracker Video Analysis

3–2019

8 a.m.–12 p.m.

W29

Affordable High-Speed Video Analysis

3–2016

8 a.m.–5 p.m.

W18

Arduino Microcontrollers in the Physics Lab

3–2618

8 a.m.–5 p.m.

W19

Reformed Teacher Observation Protocol (RTOP)

8–210

8 a.m.–5 p.m.

W20

Research-based Alternatives to Traditional Problem-Solving Exercises

8–241

8:30–10 a.m.

Meetings Committee

107C

10–11 a.m.

Nominating Committee

107B

10 a.m.–5 p.m.

Executive Board II

101

11:30 a.m.–2:30 p.m.

Resource Letters Committee

107C

1–5 p.m.

W30

Astronomy Is a Verb: Engaging Science Students in Scaffolded Astro. Research

3–2019

1–5 p.m.

W32

Writing Apps for the iPhone and the iPad

3–2004

1–5 p.m.

W34

Learner-Centered Environment for Algebra-based Physics (LEAP)

3–2628

1–5 p.m.

W36

Potpourri of Physics Simulations

3–2011

1–5 p.m.

W37

Reaching, Teaching, and Keeping Underrepresented Groups

8–246

1–5 p.m.

W38

Sweet Labs in Physics and Optics With Candy Glass

3–2016

1–5 p.m.

W39

Video Resource for Learning Assistant Development

3–2615

5–6 p.m.

Section Officers Exchange

204

5–6 p.m.

Programs Committee I

200AB

5:30–7:30 p.m.

High School Share-a-Thon

200C

**5:30–7:30 p.m.**

### REGISTRATION

North Lobby

6–7:30 p.m.

Section Representatives

204

6–7:30 p.m.

Committee on Physics in Two-Year Colleges

100B

February 4–8, 2012

6–7:30 p.m.		Committee on the History & Philosophy of Physics	107A
6–7:30 p.m.		Committee on Apparatus	107B
6–7:30 p.m.		Committee on Women in Physics	107C
6–7:30 p.m.		Committee on SI Units and Metric Education	104A
7:30–9:30 p.m.		<b>Exhibit Hall Opens / Welcome Reception</b>	Exhibit Hall B
7:30–9:30 p.m.		SPS Undergraduate Research and Outreach Poster Reception	Exhibit Hall Foyer

## MONDAY, Feb. 6

### 7 a.m.–5 p.m.

7–8 a.m.		<b>Registration</b>	<b>North Lobby</b>
7–8 a.m.		First Timers' Gathering	Exhibit Hall B
7–8 a.m.		Retired Physicists' Breakfast (ticket required)	104A
7–8 a.m.		TYC Breakfast (ticket required)	100B
8–9 a.m.		Poster Session I Setup	Ballroom A

8–10 a.m.	AA	Heliophysics	106
8–9:30 a.m.	AB	Task Force on Teacher Preparation in Physics	103
8–10 a.m.	AC	Integrating Math & Science to Prepare Pre-College Teachers	204
9–9:50 a.m.	AD	PER: Investigating Classroom Strategies	104B
8–10 a.m.	AE	Animation Physics in Hollywood	203C
8–8:30 a.m.	AF	DIY Technology for the Physics Classroom	203AB
8–9:20 a.m.	AG	Wave Nature of Matter	200C
8–9:20 a.m.	AH	Overview of High School Physics in the U.S.	200AB
9–9:50 a.m.	AI	Pre High School	202AB

10–10:15 a.m.		Raffle for One Night Anywhere in the Continental U.S. at Hilton Hotel	<b>Exhibit Hall B</b>
10–11 a.m.	<b>CW05</b>	Free Commercial Workshop: <b>Pearson</b> author Paul Hewitt	200AB
10 a.m.–2 p.m.		Spouse/Guest Event - Victoria Gardens Shopping Trip	offsite
<b>10 a.m.–6 p.m.</b>		<b>Exhibit Hall Open (coffee break, 10–10:30 a.m.)</b>	<b>Exhibit Hall B</b>
<b>10:30–11:30 a.m.</b>	<b>Plenary</b>	<b>"Waves in Animation" Ron Henderson</b>	<b>Ballroom C</b>
11:30 a.m.–12:30 p.m.	<b>CW06</b>	Free Commercial Workshop: <b>Pearson</b> author Randy Knight	200AB
11:45 a.m.–12:45 p.m.		Young Physicists' Meet and Greet	100B
11:45 a.m.–12:45 p.m.	Ckrbrl-01	Crackerbarrel for Physics Education Researchers	104B
11:45 a.m.–12:45 p.m.	Ckrbrl-02	Crackerbarrel: Planning the Next Two-Year College Tandem Meeting	106
11:45 a.m.–12:45 p.m.	Ckrbrl-03	Crackerbarrel: Physics and Society	203C
11:45 a.m.–12:45 p.m.	<b>CW01</b>	Free Commercial Workshop: <b>Expert TA</b>	201AB
11:45 a.m.–12:45 p.m.	<b>CW03</b>	Free Commercial Workshop: <b>Oceanside Photo and Telescope I</b>	103
11:45 a.m.–1 p.m.		Membership and Benefits Committee	101
11:45 a.m.–1:15 p.m.		Committee on Science Education for the Public	107C
11:45 a.m.–1:15 p.m.		Committee on Educational Technologies	107B
11:45 a.m.–1:15 p.m.		Committee on Teacher Preparation	105
11:45 a.m.–1:15 p.m.		Committee on Minorities in Physics	107A
11:45 a.m.–1:15 p.m.		Committee on International Physics Education	205
12:30 p.m.–12:45 p.m.		<b>Monday Kindle Drawing</b>	Exhibit Hall B

12:45–2:35 p.m.	BA	Astronomy Research at the Small Observatory	203AB
12:45–2:15 p.m.	BB	Physics Education Research Around the World	203C
12:45–2:15 p.m.	BC	Best Practices for Outreach to Elementary or Middle School Teachers	103
12:45–2:25 p.m.	BD	Online Physics Courses: Technology, Assessment, Experiences	106
12:45–2:15 p.m.	BE	Physics First	200C
12:45–1:55 p.m.	BF	Physics by the #s: Mobile Communications in the Classroom (Including Diversity)	204
12:45–2:35 p.m.	BG	How I Use Popular Media In Teaching Physics	200AB
12:45–2:05 p.m.	BH	Methods of Teacher Evaluation	104B
12:45–2:15 p.m.	BI	SPS Undergraduate Research and Outreach	202AB
<b>3–4:30 p.m.</b>		<b>Awards Ceremony: Oersted Medal, DSCs, SPS Chapter</b>	<b>Ballroom C</b>

4:30–6 p.m.		Awards Committee	101
4:30–6 p.m.		Committee on Laboratories	107A
4:30–6 p.m.		Committee on Professional Concerns	107B
4:30–6 p.m.		Committee on Physics in Undergraduate Education	107C
4:30–6 p.m.		Committee on Physics in High Schools	205
4:30–5 p.m.		<b>Afternoon Break in Exhibit Hall</b>	Exhibit Hall B
4:30–5:30 p.m.		PER Town Hall Meeting	104B
6–7 p.m.	CA	Frontiers in Space Exploration	202AB
6–7:10 p.m.	CB	Teaching Physics Around the World	200C

6–7 p.m.	CC	AP Physics B	106
6–7:30 p.m.	CE	Best Practices in the Use of Educational Technologies	204
6–7:10 p.m.	CF	Physics and Society Education	200AB
6–7:30 p.m.	CG	Undergraduate Research and Two-Year Colleges	103
6–7:30 p.m.	CH	Teaching Methods for Physics Teacher Preparation	203AB
6–7 p.m.	CI	Teaching Across the Science Curricula: Engaging Students in Physics Curricula	104B
7–8 p.m.		SPS Undergraduate Awards Reception	201AB
7:30–9 p.m.		Poster Session I	Ballroom A
8:15–9:30 p.m.		AAPT Council Meeting	Ballroom B

## TUESDAY, Feb. 7

6:15–7:45 a.m.		Semi-annual AAPT Fun Run/Walk	DoubleTree Lobby
7–8 a.m.		Physics Bowl Advisory Committee	205
7–8 a.m.		PTRA Advisory Committee	101
7–8 a.m.		PERLOC	107A
7–8 a.m.		Review Board I	107C
<b>7 a.m.–4:30 p.m.</b>		<b>Registration</b>	<b>North Lobby</b>
8–9 a.m.		Poster Session II Setup	Ballroom A
8–9:20 a.m.	DA	Using the Riches of Astronomy to Teach Physics	103
8–9:20 a.m.	DB	Professional Exchanges for Physics Teachers at the College and Pre-college Levels	106
8–9 a.m.	DC	PER: Topical Understanding and Attitudes	104B
8–9:10 a.m.	DD	Wave Nature of Matter Part II	200C
8–9:30 a.m.	DE	Physics on Parade	202AB
8–9:10 a.m.	DF	Teaching Science Writing/Writing in Science	203C
8–9:30 a.m.	DG	Supporting Emergency Professional Development	203AB
8–9:30 a.m.	DI	<i>Panel: What Is the Point of the Instructional Lab?</i>	204
9:40–10:40 a.m.	<b>Awards</b>	<b>Richtmyer Memorial Lecture Award: <i>Brian Greene</i></b>	<b>Ballroom C</b>
<b>10 a.m.–4 p.m.</b>		<b>Exhibit Hall Open (coffee break 10:40–11:10 a.m.)</b>	<b>Exhibit Hall B</b>
11 a.m.–12 p.m.		<b>Book Signing by Brian Greene, <i>Hidden Reality</i></b>	AAPT Booth
11:10 a.m.–12:10 p.m.	<b>Awards</b>	<b>J.D. Jackson Excellence in Graduate Physics Education: <i>Kip Thorne</i></b>	<b>Ballroom C</b>
12:15–1:15 p.m.	Crkrbrl-04	Crackerbarrel for PER Graduate Students	106
12:15–1:15 p.m.	Crkrbrl-05	Crackerbarrel: Future Directions of the Committee on Physics in Two-Year Colleges	204
12:15–1:15 p.m.	Crkrbrl-06	Crackerbarrel on The Physics Educator	203C
12:15–1:15 p.m.		Multicultural Luncheon (ticket required)	100B
12:15–1:15 p.m.	<b>CW02</b>	Free Commercial Workshop: Engaging Students through Online Interactive Learning	201AB
12:15–1:15 p.m.	<b>CW04</b>	Free Commercial Workshop: <b>Oceanside Photo and Telescope II</b>	103
12:15–1:15 p.m.		New Faculty Reunion	101
12:15–1:15 p.m.		Audit Committee	205
12:15–1:15 p.m.		Bauder Endowment Committee	107A
12:30–1:30 p.m.		<b>Book Signing by Kip Thorne, <i>Black Holes and Future of Spacetime</i></b>	AAPT Booth
12:45 p.m.–1 p.m.		<b>Tuesday Kindle Drawing</b>	Exhibit Hall B
1:15–3:15 p.m.	EA	PER Graduate Student Curriculum Beyond the Core Courses	104B
1:15–2:45 p.m.	EB	Teaching with Technology	203C
1:15–2:55 p.m.	EC	Best Practices for Increasing the Numbers of Women in Physics	200C
1:15–3:05 p.m.	ED	Student Understanding of Concepts that Underlie Astronomical Data and Models	204
1:15–2:45 p.m.	EE	SPIN-UP Ten Years Later	106
1:15–2:55 p.m.	EF	Teacher Preparation Around the World	103
1:15–2:55 p.m.	EG	PER: Student Reasoning	200AB
1:15–1:45 p.m.	EH	Physics of Games, Animations and Game Interfaces	202AB
1:15–2:45 p.m.	EI	Effective Practices in the Instructional Laboratory	203AB
2–2:40 p.m.	EJ	Mentoring: Stories and Strategies	202AB
3:15–3:45 p.m.		<b>Exhibit Hall: Afternoon Coffee Break</b>	Exhibit Hall B
3:45–5:20 p.m.		<b>AAPT Symposium on Physics Education Research and Public Policy</b>	Ballroom C
5:30–7 p.m.		Committee on Research in Physics Education	105
5:30–7 p.m.		Committee on Physics in Pre-High School Education	107A
5:30–7 p.m.		Committee on Graduate Education in Physics	107B
5:30–7 p.m.		Committee on Space Science and Astronomy	104A
5:30–7 p.m.		Committee on the Interests of Senior Physicists	205
5:30–7 p.m.		PIRA	107C
6–7 p.m.		<b>Out-Laws of Physics</b> performance	Ballroom B
7:30–9 p.m.		Poster Session II	Ballroom A

**WEDNESDAY, Feb. 8**

7–8 a.m.		Yoga Class	104A
7–8:20 a.m.		Programs Committee II	100B
7–8:20 a.m.		Lotze Scholarship Committee	205
<b>8 a.m.–3 p.m.</b>		<b>REGISTRATION</b>	<b>North Lobby</b>
8 a.m.–5 p.m.		SOFIA Tour (NASA's Stratospheric Observatory for Infrared Astronomy)	offsite
8–9 a.m.	FA	New Results in Astronomy Education Research	106
8–9:40 a.m.	FB	Implementing Matter and Interactions and Six Ideas that Shaped Physics	103
8–9 a.m.	FC	Computational and Online Tools for Teaching Physics	200C
8:30–10 a.m.	FD	Introductory Physics Courses	202AB
8–9:20 a.m.	FE	Upper Division Physics	104B
8–9:50 a.m.	FF	Pseudoscience	204
9–10 a.m.	FG	Interactive Lecture Demonstrations: Physics Suite Materials	203AB
8–10 a.m.	FH	<i>Panel:</i> Two-Year College Guidelines	203C
8–10 a.m.	FI	Reforming the Introductory Physics Course for Life Science Majors VI	200AB
9 a.m. –12 p.m.		SEES Program—for elementary school children	Ballroom A
10–10:30 a.m.		Summer Meeting 2012 – Philadelphia Kick-off	Registration area
10:30–11:30 a.m.	<b>Plenary</b>	<b>Richard Muller – Real World Problems: Physics for Presidents</b>	Ballroom C
11:30 a.m.–12:30 p.m.	Crkbrl-07	Crackerbarrel: Teaching Physics with “Real World” Problems	204
11:30 a.m.–12:30 p.m.		ALPhA Meeting	101
11:30 a.m.–12:30 p.m.		Governance Structure Committee (COGS)	107C
11:30 a.m.–12:30 p.m.		Nominating Committee II	205
12:30–1 p.m.		AAPT Ceremonial Session	Ballroom C
1–1:50 p.m.	GA	Unusual Uses of Video Analysis in the Classroom	106
1–2:30 p.m.	GB	Learning From Research in Museums, Media, and Other Informal Environments	200C
1–2 p.m.	GC	The Search for Dark Matter	103
1–2:20 p.m.	GD	Teaching Methods for Physics Teacher Preparation II	203C
1–2:30 p.m.	GE	Physics of Everyday Devices	200AB
1–2:30 p.m.	GF	PER: Student Reasoning and Problem Solving	202AB
1–1:30 p.m.	GG	Post Deadline	203AB
1–3 p.m.	GH	<i>Panel:</i> Report on IUPAP International Conference on Women in Physics	104B
3–3:30 p.m.		Great Book Giveaway	Registration area
3–4 p.m.		Venture Fund Review Committee	205



## Take a Chance on Winning a Brand New Kindle



*and support AAPT in the process!*

**There will be two drawings – Monday (12:30 p.m.) and Tuesday (12:45 p.m.) in the Exhibit Hall**

*Purchase raffle tickets at the Registration Desk for \$1 each.*