



# The Physiologist

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## Association of Chairs of Departments of Physiology 2008 Survey Results

**Chris Cheeseman and Meredith Bond  
University of Alberta  
and University of Maryland School of Medicine**

The Association of Chairs of Departments of Physiology annual survey was emailed to 186 physiology departments throughout the US, Canada, Mexico, and Puerto Rico. A total of 47 surveys were returned, for a response rate of 25%. This rate is much lower than that of the previous years' surveys (39%). Of the 51 surveys returned, there were 15 private and 36 public medical schools.

The data provide the reader with general trends of faculty, overall departmental budgets, and space available for research. As a reminder, beginning in 2004, ACDP decided not to include faculty salary information in this report. Because of the limited response rate and variability in departments responding on a year-by-year basis and the completeness of the AAMC salary data, which is more generally used, the ACDP Council decided to no longer collect or report this data. Data are still

provided, though, on tenure, gender, and ethnicity of faculty (Table 1). Also included in Table 1 is information on the average number of contact hours for faculty and on the type of medical physiology course being taught.

Student/trainee information is provided by ethnicity for predoctoral and postdoctoral categories, as well as predoctoral trainee completions, stipends provided, and type of support (Table 2).

Institutional information is provided in Table 3. Departmental budget information (Table 4) shows type of support, faculty salaries derived from grants along with negotiated indirect costs to the departments. Table 5 ranks responding Institutions according to their total dollars, research grant dollars, and departmental space. Space averages are presented as research, administration, teaching and other.

For an update of AAMC salary data, please see the accompanying article. ❖

*(continued on page 71)*

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Fax: 301-634-7241  
Email: [info@the-aps.org](mailto:info@the-aps.org)  
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## Table 1. Faculty Information

### Faculty Summary (n=900)

	Male	Female	Total
Asian/Pacific Islander	95	31	126
Black (not Hispanic)	6	5	11
Hispanic	42	10	52
White (not Hispanic)	531	149	680
Foreign National	21	10	31
<b>Total</b>	<b>695</b>	<b>205</b>	<b>900</b>

### Medical Physiology Course Type

	Yes	No	Total Responded
Integrated Disciplines	30	15	45
Traditional	27	18	45
Within Traditional	28	2	30

### Tenure Status in each department by degree

	Tenured	Not Tenured	Not Eligible	Total
MD	2	0	1	3
PhD	139	3	105	247
2 Doctorates	7	0	3	10
Other	1	0	4	5
<b>Total</b>	<b>149</b>	<b>3</b>	<b>113</b>	<b>265</b>

### For your faculty, what is the average number of hours of student contact (per year) for:

	Student Type	Average (hours)	Number (inst.)
<b>Lab Hours</b>	Graduate	223	29
	Medical	127	30
	Other	45	14
<b>Lectures</b>	Graduate	232	50
	Medical	1,017	49
	Other	76	34
<b>Small Group</b>	Graduate	38	31
	Medical	133	40
	Other	51	17

### Teaching Interactions

MD/DO	46
DDS	20
DVM	4
Allied Health	29
Pharmacy	16
Other Biomedical	33
Life Science	25
Bioengineering	22
Other	17

## Table 2. Student/Trainee Information

### Student/Trainee Summary

<i>US citizen / resident aliens</i>			
Predoctoral male	343	Postdoctoral male	130
Predoctoral female	403	Postdoctoral female	107
<i>Foreign</i>			
Predoctoral male	163	Postdoctoral male	258
Predoctoral female	172	Postdoctoral female	148

### Ethnicity of each pre- and postdoctoral student/trainee

	Pre-doctoral		Postdoctoral	
	Male	Female	Male	Female
Native American	15	5	0	1
Asian/Pacific Islander	20	32	24	22
Black (not Hispanic)	14	32	4	5
Hispanic	23	39	8	6
White (not Hispanic)	271	295	94	73

### US Citizen/Resident alien postdoctoral trainee completions:

	Male	Female
Native American	1	1
Asian/Pacific Islander	6	8
Black (not Hispanic)	3	4
Hispanic	3	1
White (not Hispanic)	59	67
<b>Total</b>	<b>72</b>	<b>81</b>

### Average Annual Stipend (US \$)

	Average	Number
Postdoctoral	\$46,393.23	47
Pre-doctoral	\$22,841.12	47

### Predoctoral Trainee Completions Trainees completing doctoral work during year ending 6/30/2008.

	Total
Female	105
Male	101
<b>Total</b>	<b>206</b>

### Foreign National predoctoral trainee completions:

	Male	Female
Asian/Pacific Islander	16	16
Central/South American	1	2
European/Canadian, etc.	7	7
Middle Eastern	4	0
<b>Total</b>	<b>28</b>	<b>25</b>

**Table 2. Student/Trainee Information (continued)**

	<u>Number of Foreign Pre- &amp; Postdoctoral Students/Trainees</u>					<u>Number of Foreign Pre- &amp; Postdoctoral trainees whose primary source of support is:</u>		
	Predoctoral		Postdoctoral			Pre-doctoral	Postdoctoral	
	Male	Female	Male	Female				
African	6	5	4	1	Institutional	155	33	
Asian/Pacific Islander	86	107	165	86	Research Grants	191	372	
Central/South American	13	9	15	10	Private Foundations	6	15	
European/Canadian, etc.	31	33	57	36	Home (foreign) Gov.	10	11	
Middle Eastern	20	14	12	9	Other	10	4	
Other	7	4	5	6	<b>Total</b>	<b>372</b>	<b>435</b>	
<b>Total</b>	<b>163</b>	<b>172</b>	<b>258</b>	<b>148</b>				

**Table 3. Institution Summary**

**Type of Institution**

Private 15  
Public 36  
**Total 51**

**Space Controlled by Department (n=73)**

	<b>Average</b>
Research Space	18,260
Administrative Space	3,093
Teaching Space	2,450
Other Space:	2,542
<b>Total Space</b>	<b>26,345</b>

**Table 4. Institutional Financial Information**

**Budget by Institution**

	<b>All Institutions</b>	<b>No.</b>	<b>Private Medical</b>	<b>No.</b>	<b>Public Medical</b>	<b>No.</b>	<b>Nonmedical</b>	<b>No.</b>
Institutional (Hard money, e.g. operating costs, state allocations)	\$2,573,744	47	\$2,359,212	10	\$2,947,654	27	\$2,414,365	10
Outside Research Grants and Contracts (direct costs only)	4,036,541	46	4,102,941	10	4,244,263	27	3,762,420	9
Training Grants (direct costs only)	240,267	26	324,654	6	256,299	14	139,849	6
Endowments	333,277	31	329,061	4	373,891	21	296,878	6
Indirect Cost Recovery (amount returned to your department)	236,913	36	316,208	4	210,649	24	183,882	8
Other Budget Support (identify)	439,401	35	644,769	3	319,210	24	354,226	8
<b>Average Departmental Budget</b>	<b>7,860,143</b>		<b>8,076,843</b>		<b>8,351,965</b>		<b>7,151,619</b>	

**Financial Information**

Current fringe benefit rate most frequently used for Primary faculty	27.06 (n=51)
Federally negotiated indirect cost rate for FY 08-09 off campus	25.74 (n=39)
Federally negotiated indirect cost rate for FY 08-09 on campus	50.50 (n=50)
Percentage of allocated salary dollars directly returned to your department	74.53 (n=32)
Percentage of indirect costs returned to your department	18.44 (n=36)
Percentage of total faculty salaries derived from research grants (does not include fringe benefits costs)	34.98 (n=48)

Table 5. Complete Ranking According to Total Dollars

Rank Total Dollars	Total Dollars	Rank Research Grant Dollars	Research Grant Dollars	Rank Research Dollars/ Faculty	Research Dollars/ Faculty	Rank Total Research Space	Total Research Space	Rank Research Dollars/ sq ft	Research Dollars/ sq ft	No. of faculty
1	23,006,180	2	18,650,780	1	1,434,675	9	24,680	1	756	13
2	22,606,617	1	21,853,063	2	753,554	1	43,512	2	502	29
3	15,240,012	3	10,767,467	6	358,916	13	23,039	3	467	30
4	14,072,936	5	9,043,448	5	452,172	4	32,851	15	275	20
5	13,503,404	4	10,293,836	3	605,520	3	36,000	14	286	17
6	12,087,917	6	8,516,536	4	500,973	10	24,392	8	349	17
7	10,996,974	11	5,522,155	27	190,419	32	14,700	6	376	29
8	10,209,433	14	5,140,777	13	285,599	27	16,726	11	307	18
9	9,930,181	10	5,574,323	29	185,811	16	22,768	17	245	30
10	9,517,766	13	5,263,804	7	350,920	14	22,955	19	229	15
11	9,486,907	7	6,064,160	25	202,139	5	30,196	27	201	30
12	9,343,946	8	5,827,446	10	306,708	2	41,083	39	142	19
13	9,188,116	9	5,617,606	15	244,244	8	25,799	22	218	23
14	8,975,012	12	5,427,625	18	217,105	11	24,166	20	225	25
15	8,738,520	16	4,768,824	32	176,623	15	22,934	25	208	27
16	8,172,811	27	3,149,711	33	165,774	17	20,812	35	151	19
17	7,640,846	17	4,495,197	9	321,086	28	16,401	16	274	14
18	7,490,780	15	5,134,052	16	233,366	7	27,500	29	187	22
19	7,300,942	32	2,920,298	40	139,062	23	18,378	32	159	21
20	7,208,564	21	3,880,311	23	204,227	12	23,731	31	164	19
21	7,115,128	18	4,366,261	11	291,084	44	10,358	5	422	15
22	6,942,904	22	3,752,712	28	187,636	45	8,385	4	448	20
23	6,663,871	29	3,075,765	35	161,882	20	20,104	34	153	19
24	6,066,489	19	4,291,482	12	286,099	35	13,790	10	311	15
25	6,058,086	28	3,149,480	20	209,965	22	19,848	33	159	15
26	5,929,501	31	2,964,527	39	141,168	19	20,258	38	146	21
27	5,579,258	30	2,981,908	26	198,794	21	20,000	36	149	15
28	5,542,635	25	3,201,470	38	145,521	36	13,746	18	233	22
29	5,480,624	37	2,123,410	37	151,672	43	10,486	26	202	14
30	5,381,522	23	3,476,346	17	217,272	26	17,535	28	198	16
31	5,047,610	26	3,186,510	36	159,326	6	28,664	44	111	20
32	4,992,484	24	3,324,087	14	277,007	42	11,384	13	292	12
33	4,826,698	34	2,600,000	19	216,667	46	6,947	7	374	12
34	4,564,532	33	2,646,495	24	203,577	39	12,500	23	212	13
35	4,502,713	20	3,923,718	22	206,511	25	17,828	21	220	19
36	4,467,725	39	1,948,544	44	97,427	29	16,014	43	122	20
37	4,211,645	41	1,790,655	41	111,916	33	13,938	41	128	16
38	4,192,553	40	1,807,301	47	75,304	47	6,165	12	293	24
39	4,179,021	35	2,306,375	31	177,413	37	13,391	30	172	13
40	3,887,136	45	1,540,348	42	110,025	31	14,774	47	104	14
41	3,886,692	47	1,237,918	46	95,224	41	12,054	48	103	13
42	3,449,851	36	2,303,625	34	164,545	30	15,672	37	147	14
43	3,093,092	44	1,620,823	8	324,165	48	5,095	9	318	5
44	2,972,428	49	638,650	50	53,221	18	20,269	51	32	12
45	2,766,500	46	1,453,734	30	181,717	34	13,895	46	105	8
46	2,334,899	42	1,656,687	21	207,086	40	12,470	40	133	8
47	2,095,238	38	2,000,000	45	95,238	24	18,000	45	111	21
48	1,067,020	48	960,318	43	106,702	50	4,570	24	210	9
49	1,020,417	51	150,000	51	25,000	51	2,900	49	52	6
50	966,234	50	154,758	49	25,000	49	4,613	50	36	5
51	557,081	43	1,631,095	48	65,244	38	12,967	42	126	25

## AAMC Medical School Faculty Compensation Survey

Each year the American Association of Medical Colleges (AAMC) surveys all the US medical schools as to faculty compensation. Because of this, the ACDP (see associated article) decided to no longer collect the same data from its members.

As a supplement to the ACDP survey, the AAMC has agreed to allow the APS to publish selected results from their survey.

Table 1 shows the regional distribution of medical schools responding to the AAMC survey in terms of public medical and private medical. Also shown is the number of physiology departments in those regions that responded.

Summary statistics on faculty compensation in physiology departments for PhD faculty are given in Table 2. Table 3 shows the changes in salary that have occurred over the past three years. The summary statistics for separate regions of the country are given in Table 4.

Table 5 shows the salary comparison between PhD faculty in all basic science departments versus those in physiology departments. ❖

**Table 1. Distribution of Medical Schools Responding to AAMC Medical School Faculty Compensation Survey.**

		Northeast	Midwest	South	West	TOTAL
<b>All</b>	<b>Private Medical</b>	23	11	12	3	49
	<b>Public Medical</b>	12	19	34	13	78
<b>Physiology</b>	<b>All Medical Schools</b>	19	19	23	11	72

**Table 2. Summary Statistics on Physiology Department PhD Faculty Compensation.**

		25th	Median	75th	Mean	Number of Faculty
<b>Chair</b>	All Schools	203,000	240,000	278,000	242,700	72
	Medical Public	201,000	234,000	267,000	231,300	47
	Medical Private	214,000	258,000	304,000	264,100	25
<b>Professor</b>	All Schools	123,000	146,000	173,000	153,300	616
	Medical Public	123,000	144,000	172,000	152,200	439
	Medical Private	120,000	151,000	178,000	156,100	177
<b>Associate Professor</b>	All Schools	90,000	100,000	113,000	102,400	361
	Medical Public	90,000	101,000	115,000	102,800	234
	Medical Private	86,000	99,000	111,000	101,700	127
<b>Assistant Professor</b>	All Schools	65,000	81,000	93,000	80,500	384
	Medical Public	64,000	81,000	92,000	79,800	240
	Medical Private	65,000	83,000	93,000	81,700	144
<b>Instructor</b>	All Schools	46,000	50,000	56,000	52,500	77
	Medical Public	47,000	50,000	55,000	51,500	49
	Medical Private	46,000	51,000	63,000	54,200	28

**Table 3. Change in Total Compensation for Physiology Department PhD Faculty.**

2007-2008		2006-2007		2005-2006		% Change 2006-2007 to 2007-2008	
Mean	Median	Mean	Median	Mean	Median	Mean	Median
119,300	110,000	112,800	104,000	109,800	100,000	5.8	5.8

Mean and median values were combined for Assistant, Associate, and Professor.

**Table 4. Summary Statistics on Physiology Department PhD Faculty Compensation by Region.**

		Northeast	Midwest	South	West
<b>Chair</b>	25th	220,000	206,000	175,000	201,000
	Median	242,000	240,000	226,000	264,000
	75th	295,000	278,000	263,000	289,000
	Mean	260,400	248,000	221,500	247,400
	Total Faculty	19	19	23	11
<b>Professor</b>	25th	130,000	123,000	113,000	136,000
	Median	155,000	147,000	135,000	148,000
	75th	177,000	178,000	166,000	177,000
	Mean	158,200	152,800	144,300	166,700
	Total Faculty	146	168	208	94
<b>Associate Professor</b>	25th	92,000	86,000	89,000	92,000
	Median	103,000	95,000	100,000	108,000
	75th	117,000	106,000	111,000	119,000
	Mean	106,100	98,500	101,600	106,500
	Total Faculty	101	100	128	32
<b>Assistant Professor</b>	25th	65,000	63,000	63,000	74,000
	Median	86,000	78,000	78,000	93,000
	75th	96,000	89,000	89,000	104,000
	Mean	83,300	76,100	77,700	91,500
	Total Faculty	108	108	121	47
<b>Instructor</b>	25th	49,000	39,000	46,000	45,000
	Median	54,000	51,000	49,000	50,000
	75th	59,000	59,000	51,000	58,000
	Mean	56,000	53,700	49,100	52,800
	Total Faculty	23	15	30	9

## Graduate Students as Local Government Scientific Advisors

by Guruprasad Madhavan

Leaning against one of the fluted Doric columns of the Lincoln Memorial one recent evening, I wondered how many visitors around me—avidly photographing the inspirational Georgian marble statue of the 16th President—would know of his pivotal contribution to science and technology. My guess: not many.

Even as the Civil War raged about him, Abraham Lincoln recognized the importance of scientific advice in nation building. Thus, he signed off on the formation of the National Academy of Sciences with Alexander Bache—the great grandson of Benjamin Franklin—as the Academy's first president in 1863. Since then, the organization, now called the National Academies, along with the National Academy of Engineering, Institute of Medicine, and the National Research Council, has come a long way to become one of the most powerful repositories of authoritative advice on domestic and global policy issues involving science, engineering, and medicine. Perhaps surprisingly, however, the Academy relies on volunteerism. Some of the nation's brightest minds voluntarily provide vital scientific input to dispense legislative policy prescriptions.

A similar voluntary advisory model could be beneficial for every county or region in the United States. After all, we have the regional intellectual resources in the form of universities thousands of them across the country. Tapping these regional resources could be as useful for leaders in the local government as the National Academies is for the federal government. Think of it: right now most state senators, assembly members, county executives, city mayors, legislature, commissioners and directors of the numerous county departments, boards, agencies, or initiatives do not have ready access to—or input from—the scientific information relevant to their region. The local universities could provide vital advice to governing officials on a plethora of challenges including bootstrapping career development and entrepreneurship, improving standards of school education, increasing the public visibility of their community, multiplying the competitiveness of the workforce, mitigating diseases, preserving the region's natural resources, adding new energy and transportation technologies, and reducing violence.

This is where graduate students could

spawn a new movement by serving as advisors to their local governments. The basic objective would be to *provide government officials a new—scientific—framework on issues*. Perhaps, as importantly, the students could help communicate the scientific vernacular to the political audience with a fresh voice and renewed zeitgeist.

From a moral standpoint, “every citizen has a civic duty to participate in community affairs,” says Harvey Fineberg, president of the Institute of Medicine and former provost of Harvard University. “Scientists and engineers have special [responsibility and] expertise to contribute.”

My friend, Sarah Carter, relates to these sentiments. Carter, a neuroscientist by training, was thrown into the deep end of the policy world a few years ago when her father decided to run for the US Senate. Carter was still a graduate student at the University of California, San Francisco, but she knew she had to contribute what she could to her father's campaign. “In addition to working on the official campaign website and online outreach, I began to dig into the policy questions that would come up during the campaign,” says Carter. “As the scientist in the family,” she notes, “my dad would look to me for help in explaining the background and options on a wide range of issues—stem cell research, cloning, climate change and nuclear waste. I found that as a scientist, I was able to quickly ramp up to speed on a surprising variety of public policy issues [that I would have otherwise not been exposed to].”

When I asked if she would have done anything differently while in graduate school, Carter, who now advises the officials of the US Environmental Protection Agency on policies related to climatic disruption, added: “I would have looked for more opportunities to get involved not only in policy positions, but also in political issues and campaigns. Policy and politics have a very close relationship and being involved in either can help one understand how ideas evolve and how change is created. Also, I would have looked for more chances to explain science to non-scientific audiences. Developing that skill is critical for scientists and engineers.”

This brings me to an important point: *why* we should mobilize graduate stu-

dents for advising our local government? Simple: the graduate students and their respective university organization are a powerhouse of talent, motivation, scholarship, and diversity. They are the backbone of research, development, and advancement at universities and arguably the least explored resource for improving governance. They are a resource you can drill continuously and still never drain dry!

David Goldston, former chief of staff of the US House of Representatives Committee on Science, and a columnist for the journal *Nature*, offers a practical view on how to galvanize graduate students to be more active in policy and politics. “In general, graduate students in science, engineering, and management should be encouraged to read and study more about politics, policy and related subjects than they do. Too bad, they are often actively dissuaded from doing this.”

Goldston's words emphasize the crucial role of educators in the advising model. Without their encouragement and motivation, it is difficult for students to emerge from their academic cocoons. One useful strategy, therefore, would be to have the university president, provost, vice-presidents, deans, department chairs, graduate program directors, research advisors, and the government relations officers join forces to help connect graduate students to local officials.

I am confident that many graduate students would be eager to go beyond nitty-gritty technical discourses to help our community officials gain an understanding of the implications of extant or emerging research and technologies. That is why “it's important,” as Goldston notes, that “graduate students or anyone else not just think that they are ‘smart’ people walking in to tell official the ‘facts’ so that they'll know what to do. Most policy questions involve—and should involve—matters *beyond* science and engineering. Lack of information is not usually the only or primary cause of delayed action or of action a particular individual may disagree with.”

So, here's a focal question: would the government officials actually listen to graduate students? “Absolutely!” says Rochester area Assemblyman David Koon, formerly an engineer at Bausch & Lomb. “We need to show everyone how *easy* it is to influence their government



officials. The one reason elected officials would, and should, listen to students is because, ultimately, they need their VOTE. I know that all of us are very busy; most of us spend so much time online, text-messaging, or making phone calls each day yet the sad part is most students or constituents don't even know who actually represents them at any level."

Assemblyman Koon's point calls for a fundamental rekindling of our spirit of volunteerism, one that is underpinned, not by convenience, but commitment. If graduate students and the broader scientific community continue to remain as casual observers of the political process, we can only curb—not accelerate—our economic development. The same will still be true if the political community continues lobbying for more financial capital without paying attention to the local intellectual capital.


A moral commitment is essential, argues Harvey Fineberg's colleague William Wulf, who was president of the National Academy of Engineering from 1997 to 2006. In an editorial in November 14, 2008 issue of the *Science* magazine, Wulf, and past vice-chair of the National Science Board Anita Jones, note: "Too often we have heard 'I am too busy,' or 'my research is my service to the country,' or various disparaging remarks about government bureaucrats and not wanting to be associated with them. There are several reasons why technically literate people should serve. First, they are needed. The world is more technologically sophisticated than it has ever been, and today most public policy issues have technical dimensions. Without sound technical input, some bad public policy will result. Without unrelenting oversight by individuals with technical expertise to ensure sound

implementation, foolish actions will be taken." Wulf and Jones bluntly conclude: "Every one has a contribution to make. Shouting from the sidelines does not work. And if the technical community does not engage, we will get what we deserve."

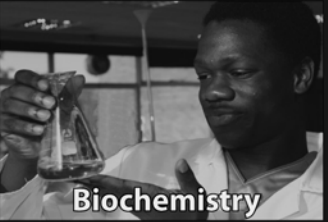
Every year, our universities train tens of thousands of highly qualified graduate students. This coming semester, if one—just *one*—graduate student from each university is given the opportunity to ascend to a new public responsibility that would be a perfect tribute to Lincoln's vision on the 200th anniversary of his birth. ❖

*Guruprasad Madhavan is a member of the APS Communications Committee, a PhD candidate in Biomedical Engineering at Binghamton University, State University of New York, and National Academies in Washington, DC.*


## WE ARE ALL PHYSIOLOGISTS



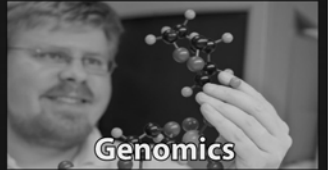
**Medical Sciences**



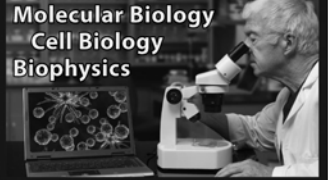
**Biochemistry**




**Pharmacology  
Drug Discovery**




**Genomics**




**Molecular Biology  
Cell Biology  
Biophysics**



**Comparative  
& Evolutionary**



**Neuroscience**



**Sports  
Medicine**

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- Genomics
- Molecular Biology
- Biomathematics
- Comparative & Evolutionary
- Medical & Veterinary Sciences
- Neuroscience
- Biophysics
- Pharmacology


APS Members are individuals worldwide whose work focuses on a wide variety of disciplines devoted to human and animal health and function—including systems biology, genomics, translational research and all other life sciences.

The majority of this international membership hold doctoral degrees in physiology, medicine, or other health professions; and they are employed in universities, hospitals, industrial organizations, medical schools, private foundations, and government. APS also has Student and Affiliate members.

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## Nebraska Physiological Society Holds Annual Meeting

The eleventh annual meeting of the Nebraska Physiological Society (NPS) was held on Saturday, September 6, at the Univ. of Nebraska at Omaha Thompson Alumni House, Omaha, NE. Attendance at the meeting totaled 80 registered individuals, including undergraduate and graduate students, post-doctoral fellows, and faculty members. Thirty nine research posters from five research institutions were presented. The meeting began at 9:00 am with welcome and introductory remarks from Thomas E. Pisarri, NPS President and Professor, Department of Biomedical Sciences at Creighton University. Pisarri thanked this year's sponsors for their support. Sponsors included the American Physiological Society; the Department of Cellular and Integrative Physiology, UNMC; the Dean's Office of the College of Medicine, UNMC and The Nebraska Medical Center. Corporate sponsors were Data Sciences International, AD Instruments, North Central Instruments, and the Bruker Biospin Corporation – EPR Division. He then thanked the staff of the Department of Cellular and Integrative Physiology for their help and support during his presidency: Pearl Sorensen, Linda Tegeder, Janine Wilson, Cindy Norton, and Richard Robinson.

The meeting began with the research keynote address by Joey Granger, Univ. of Mississippi Medical Center. The title of Granger's presentation was, "Pathophysiology of Hypertension in Response to Placental ischemia During Pregnancy."

Granger's address was followed by Young Investigator Presentations by Carol Fassbinder-Orth, Assistant Professor from Creighton University and Jennifer Wood, Assistant Professor from the Univ. of Nebraska at Lincoln. The speakers were selected to present their research projects based on the quality of their submitted abstracts.

Following the Young Investigator Presentations, Dee Silverthorn, Univ. of Texas-Austin, presented the education keynote address entitled, "Teaching in the Interactive Classroom."

Pisarri called the NPS business meeting and luncheon to order. Irving H. Zucker, President of APS and Chair of the Department of Cellular and Integrative Physiology (UNMC) presented an update on the state of the APS. Zucker highlighted current programs and strategic goals of the parent society. David Holtzclaw highlighted the activities that took place during APS sponsored PhUn Week and the 7<sup>th</sup> Grade College and career fair that took place at Metropolitan Community College on April 18, 2008. Harold D. Schultz, presented an update as NPS representative to the APS Chapter Advisory Committee. Cindy R. Norton, Executive Director and Administrator, Department of Cellular and Integrative Physiology, UNMC, presented the current financial status of NPS. She noted that the current financial status of the NPS is sound. Norton called for a vote to reinvest the Chapter Certificate for Deposit for additional year and invest \$1,500 of the Lee Zucker funds into a 12-month Certificate for Deposit. Motion passed.

Pisarri presented a plaque NPS Past-President, Harold D. Schultz, Professor, Department of Cellular and Integrative Physiology in recognition of his innovative efforts in planning the 2007 Combined Iowa-Nebraska Physiological Society Meeting. Pisarri then presented a plaque to Cindy R. Norton, Executive Director, in recognition of her ongoing dedication to the NPS and her meticulous organization of the annual meeting.

The afternoon portion of the meeting was dedicated to poster viewing and judging. Posters were judged in the undergraduate, graduate, and postdoctoral categories from institutions that included: Univ. of Nebraska at Lincoln, Univ. of Nebraska Medical Center, Creighton Univ., Univ. of South Dakota, and Wayne State College. After the judges' rankings were compiled, the each group of judges met to finalize the awards.

The NPS business meeting reconvened and Pisarri presented awards to individuals in each of the categories. In

the undergraduate category, award recipients were: 1st place, Sumit Kar, UNMC; 2nd place, Tiffany L. Bohlender, UNL; 3rd place, Rachael Farrar UNMC. Award recipients in the graduate category were: 1st place, Lee Zucker Graduate Student Research Award, P. Richard Grimm, UNMC; 2nd place (tie), Sarah Clayton, UNMC, and Laura Liete, UNMC. In the postdoctoral category, award recipients were: 1st place, Amit Mitra, UNMC; 2nd place, Muhammad Bari, UNMC; 3rd place, Yangfeng Ding, UNMC. Recipients received certificates and monetary awards of \$250 (1st place), \$100 (2nd place), or \$50 (3rd place).

Pisarri again thanked this year's sponsors for their support and thanked all individuals who helped made the meeting a success. Pisarri then introduced Kaushik P. Patel, Department of Cellular and Integrative Physiology, UNMC, as the incoming 2008-2009 NPS President.

The meeting attracted students from institutions throughout the state and promoted interdisciplinary contacts among individuals interested in the physiological sciences at the local level. It also highlighted goals on education for future physiologists.

Officers for NPS the coming year are:

**President:** Kaushik P. Patel, Univ. of Nebraska Medical Center;

**President-Elect:** George J. Rozanski, Univ. of Nebraska Medical Center;

**Past President:** Thomas Pisarri, Creighton Univ.;

**Secretary/Treasurer:** Jessica Meendering, Univ. of Nebraska at Omaha;

**Councilor:** Janet E. Steele, Univ. of Nebraska at Kearney;

**Councilor:** Barbara Engebretsen, Wayne State College;

**Councilor:** G. Patrick Lambert, Creighton Univ.

The meeting concluded at 4:30 pm. ❖

*Cindy R. Norton CPS/CAP  
Executive Director*

## New Regular Members

### \*Transferred from Student Membership

- Maria Teresa Abreu**  
Univ. of Miami, FL
- Jairaj Kumar Acharya**  
National Cancer Inst., Frederick, MD
- Peter J. Adhietty\***  
Univ. of Florida, Gainesville
- Mohammed Aldakkak**  
Medical Coll. of Wisconsin
- Silvina Monica Alvarez**  
VA Commonwealth Univ., Richmond
- Srdjan D. Antic**  
Univ. of Connecticut, Farmington
- Benjamin R. Arenkiel**  
Duke Univ., NC
- Philip L. Ballard**  
Univ. of California, San Francisco
- Mirian Bassi**  
Univ. of Mississippi, Jackson
- Melissa L. Bates\***  
Univ. of Wisconsin, Madison
- Tracy Denixe Bell\***  
Georgetown Univ., Washington, DC
- Gregory M. Blain**  
Univ. of Wisconsin, Madison
- Amy Dodd Bradshaw**  
Med. Univ. of South Carolina, Charleston
- Fiona C. Britton**  
Univ. of Nevada, Reno
- Laurence L. Brunton**  
Univ. of California, San Diego
- Andrew C. Bulmer\***  
Univ. of Southern Queensland, Australia
- Don Edward Burgess**  
Asbury College, Wilmore, KY
- Lauri Olson Byerley**  
Louisiana St. Univ., New Orleans
- Leigh Ann Callahan**  
Univ. of Kentucky, Lexington
- Sukhinder Kaur Cheema**  
Memorial Univ., St Johns, NF, Canada
- AnPing Chen**  
Mayo Clinic, MN
- Ruben G. Contreras**  
Ctr. for Res./Advanced Studies, Mexico
- Dermot Cooper**  
Univ. of Cambridge, UK
- John A. Corbett**  
Univ. of Alabama, Birmingham
- Robert J. Cousins**  
Univ. of Florida, Gainesville
- Andrei Derbenev**  
Univ. of Kentucky, Lexington
- Leland G. Dobbs**  
Univ. of California, San Francisco
- Ranjeet M. Dongaonkar**  
Texas A&M Univ., College Station
- Veronique Douard**  
UMDNJ, Newark, NJ
- John James Durocher\***  
Univ. of Wisconsin
- David Allan Edwards**  
Univ. of Florida, Gainesville
- Jos Jan Eggermont**  
Univ. of Calgary, Canada
- William L. Elliott\***  
HealthBuilding.com, CO
- Zakaria Y.A. Elmaged**  
Tulane Univ., LA
- Douglas Edward Fitzovich**  
Lincoln Mem. Univ., DeBusk Coll., TN
- Bradley Stephen Fleenor**  
Univ. of Colorado, Boulder
- Rubens Frazan**  
Univ. of Sao Paulo, Brazil
- Alain Frigon**  
Univ. De Montreal, ON, Canada
- Theresa W. Gauthier**  
Emory Univ., GA
- Eric Matthew George**  
Univ. of Mississippi
- Ann Kathleen Goodchild**  
Macquarie Univ., Sydney, Australia
- Ravi Goyal**  
Loma Linda Univ., CA
- Guillaume Grenier**  
Univ. of Sherbrooke, Canada
- Maged Mohamed Harraz**  
Johns Hopkins Univ., MD
- Duygu Dee Harrison-Findik**  
Univ. of Nebraska Med. Ctr., Omaha
- Yee-Hsec Hsieh**  
Case Western Res. Univ., OH
- Alexander Christopher Huk**  
Univ. of Texas, Austin
- Yoh Ishiguro**  
Hirosaki Univ., Japan
- Allan Valery Kalueff**  
Tulane Univ. Med. School, LA
- Eliyahu Khankin**  
Beth Israel Deaconess Med. Ctr., MA
- Andrew James King\***  
Abbott Laboratories, IL
- Hiroyuki Kinoshita**  
Wakayama Medical Univ., Japan
- John P. Konhilas**  
Univ. of Arizona, Tucson
- Yevgeniya E. Koshman\***  
Loyola Univ., IL
- David Krizaj**  
Univ. of Utah
- Alexey S. Kuznetsov**  
Indiana Univ./Purdue Univ., IN
- Mark G. Laubach**  
Yale Univ., CT
- Mark J. Lehmkuhle**  
Univ. of Utah
- Christian H. Lemon**  
St. Louis Univ., MO
- Wenjing Li**  
Albert Einstein Coll. Med., NY
- John Thomas Liles**  
Gilead Sciences Inc., CO
- Sean W. Limesand**  
Univ. of Arizona
- Christopher Alan Lowry**  
Univ. of Colorado
- Ayala Luria**  
Univ. of California, Davis
- Bram Lutton**  
Franklin W. Olin Coll. Engin., MA
- James P. Luyendyk**  
Univ. of Kansas
- Chao Ma**  
Yale Univ., CT
- Itzhak Mano**  
City Univ. of New York
- Patrice D. Martin**  
Inst. Natl. Res. Agronomique, France
- Kazumi Masuda**  
Kanazawa Univ., Japan
- Kenjiro Matsumoto**  
Josai Intl. Univ., Japan
- Porta Maura**  
Midwestern Univ., Downers Grove, IL
- Kenneth McMartin**  
Louisiana State Univ. HSC, Shreveport
- C.W. James Melling**  
Univ. of Western Ontario, Canada
- Li Mi**  
Massachusetts Inst. of Tech.
- Takafumi Minaminoto**  
Natl. Inst. Radiol. Scis., Chiba, Japan
- Jorge David Miranda**  
Univ. of Puerto Rico, San Juan
- Elena V. Mironova**  
Univ. of Texas, San Antonio
- Carlos Torres Moraes**  
Univ. of Miami, FL
- Robert Tyler Morris\***  
Missouri Southern State Univ.
- Rory E. Morty**  
Univ. of Giessen Lung Ctr., Germany
- Eugene Nalivaiko**  
Univ. of Newcastle, Australia
- Mark A. Osborne**  
Queensland Acad. of Sport, Australia
- Jaume Padilla**  
Univ. of Missouri, Columbia
- Clay E. Pandorf\***  
Univ. of California, Irvine
- Nazareno Paolucci**  
Johns Hopkins Sch. Med., MD
- Jacqueline M. Powell**  
Morehouse School of Medicine, GA
- Dolores Prieto-Ocejo**  
Complutense Univ., Madrid, Spain
- Stefan Pulver**  
Brandeis Univ., MA
- Govindarajan Rajagopalan**  
Mayo Clinic Coll. of Med., MN
- Viswanathan Rajagopalan\***  
Stanford Univ., CA
- Stephen Rattigan**  
Univ. of Tasmania, Australia
- Josef Peter Rauschecker**  
Georgetown Univ., Washington, DC

**Catarina Rippe**

Univ. of Colorado, Boulder

**Marcie Alayne Roche\***

Consultant-Med. Writer, VT

**Jason Wayne Ross**

Iowa State Univ., Ames

**Assaf Rudich**

Ben-Gurion Univ., Beer-Sheva, Israel

**Hanaa S. Sallam**

Univ. of Texas, Galveston

**Flora Sam**

Boston Univ., MA

**Agnes Savigner**

Univ. of Pennsylvania Sch. Med.

**Roland Schaette**

Univ. College of London, UK

**Mary L. Schwanke**

Univ. of Maine, Farmington

**Minga M. Sellers\***

Texas A&M Univ., College Station

**Maria A. Serrat**

Cornell Univ., NY

**Khalid M. Sharafeldin**

King Saud Univ., Saudi Arabia

**Nader Sheibani**

Univ. of Wisconsin, Madison

**Garry Shen**

Univ. of Manitoba, Winnipeg, Canada

**Bo Shui**

Cornell Univ., NY

**Prabhleen Singh**

Univ. of California, San Diego

**Juan M. Solis-Soto**

Univ. Autonoma De Nuevo Leon, Mexico

**Rajasekaran N. Sooprappan**

Univ. of Utah, Salt Lake City

**Qian-Quan Sun**

Univ. of Wyoming, Laramie

**Xiaorui Tang**

PA State Univ. College of Med., Hershey

**Ryuichi Tatsumi**

Kyushu Univ., Fukaoka, Japan

**Manuel Tena-Sempere**

Univ. of Cordoba, Spain

**Kaoru Tominaga**

Univ. of Texas HSC, San Antonio

**Gea-NY Tseng**

VA Commonwealth Univ., Richmond

**Stephem M. Vogel**

Univ. of Illinois, Chicago

**Tetyana G. Voloshenyuk**

Louisiana St. Univ. HSC, New Orleans

**Christopher M. Westerkamp\***

Ferris State Univ., Big Rapids, MI

**Patrick J. Whelan**

Univ. of Calgary, Canada

**Gagan S. Wig**

Harvard Univ., MA

**Hitoshi Yamashita**

Chubu Univ., Japan

**Richaro A. Zager**

Fred Hutchinson Cancer Res. Ctr., WA

**Matthew Ralph Zahner**

Johns Hopkins Univ., Sch. Med., MD

**Zhikun Zhang**

Univ. of PA, Philadelphia

**Peng Zhou**

Wake Forest Univ., NC

**Wuqiang Zhu\***

Indiana Univ. Sch. Med., IN

## New Student Members

**John Howard Alexander**

Univ. of Cincinnati, OH

**Martin Christian Anderson**

Univ. of Colorado, Boulder

**Shinichi Asano**

West Virginia Univ.

**Perla Baez**

Ponce Sch. Med., PR

**Konstantinos Bardis**

Harokopio Univ., Greece

**Walter Allen Baseler**

West Virginia Univ.

**Melissa Lynn Bednarek**

Virginia Commonwealth Univ.

**Vipa Bernhardt**

Univ. of Florida

**James Kain Ching**

St. Louis Univ., MO

**Gaurav Chugh**

Univ. of Houston, TX

**Michelle Colomiere**

Univ. of Melbourne, Australia

**Magdalena Czarnecka**

Georgetown Univ., Washington DC

**Ashley DeCoux**

Univ. of South Alabama

**Michael De Lisio**

McMaster Univ., Canada

**Maria Devers**

Felician College, NJ

**Azmy Faisal**

Univ. of Waterloo, Canada

**Sirgio Antonio Fabris**

Northern Ontario Sch. Med.

**Sara Marie Freiberg**

Univ. of Wisconsin

**Salina Gairhe**

Univ. of South Alabama

**Amannprit Kaur Gill**

Univ. of Claude-Bernard, Lyon, France

**Adam Institoris**

Wake Forest Univ., HSC, NC

**John David Jennings**

Pennsylvania State Univ.

**Titia L. King**

Univ. of Missouri, Columbia

**Anne T. Kirabo**

Univ. of Florida

**Marcos T. Kuroki**

Univ. of Minnesota, Twin Cities

**Kristine H. Kurtz**

Louisiana St. Univ. Sci. Ctr.

**Timothy J. Leszczak**

Univ. of Arkansas

**Augusto M. Lima**

Univ. Ctr. Belo Horizonte, Brazil

**Ryan Charles Luke**

Georgia State Univ.

**Mark K. Lukewich**

Queens Univ., Canada

**Daniel Luther**

NEOUCOM, OH

**Fenke Maij**

VU Univ., Amsterdam

**Noah Justin Marcus**

Univ. of Wisconsin

**Steven D. Menicucci**

Univ. of New Mexico

**James John O'Donnell**

Rush Univ., IL

**Imam F.A. Omolola**

Univ. of Ilorin, Nigeria

**Erin W-M Paig-Tran**

Univ. of California, Irvine

**Nikhil Pareikar**

Univ. of Missouri, Kansas City

**George Robitson**

Univ. of California, Irvine

**Juan B. Rodriguez-Barrantes**

Univ. of Alabama

**Mani C. Satapathy**

All India Inst. of Med. Sci.

**Danielle Marie Speicher**

Northeastern Ohio Univ.

**Maki Takahashi**

Univ. of Toledo, OH

**Jose A. Torres**

Texas Southern Univ.

**Yvonne M. Torres-Diaz**

Univ. of Puerto Rico

**Bianca A. Torres-Hernandez**

Univ. of Puerto Rico

**Lindsey C. Vedder**

Univ. of Alabama, Birmingham

**Alicia A. Waggoner**

Univ. of South Alabama

**Junjie Wang**

Univ. of Miami, FL

**Zhenhua Wang**

Friedrich-Schiller Univ., Germany

**Lewis J. Watson**

Univ. of Louisville, KY

**Li-Sue S. Yan**

Louisiana State Univ.

**Alexander Yang**

Louisiana State Univ.

**Zhenxian Zhang**

Univ. of Toledo, OH

## New Affiliate Members

**Kanchana Karuppiah**

Univ. of Florida

**Andrea L. Matthis**

Univ. of Cincinnati, OH

**Blair R. Mell**

Univ. of Toledo, OH

## APS Presents Awards for the Best Physiology Project at Local Elementary, Middle and High School Science Fairs

APS members continue to judge and present Science Fair Awards on behalf of the APS at local and regional science fairs for pre-college students across the nation. In 2009, 34 requests for science fair award packets have been received to date, already doubling the number from last year. The student selected to have the best physiology-related project receives an APS t-shirt, an APS researcher pin, and a certificate. The student's teacher receives the APS "Women Life Scientists" book and a K-12 resource packet.

Any APS member who participates as a judge in a local or regional science fair at an elementary, middle, or high school is eligible to apply and receive an APS award packet. For more information, visit: <http://www.the-aps.org/education/sciencefair/index.htm> or contact Scarletta Whitsett (swhitsett@the-aps.org) in the APS Education Office.

Amaris Thomas, a freshman at Cathedral School in Birmingham, AL, received an APS award for the best physiology project at Central Alabama Regional High School Science and Engineering Fair. APS Councillor J. Michael Wyss of the University of Alabama at Birmingham was a judge on behalf of the APS and presented Thomas with her award. The title of her project is "Bacterial control." Her teacher and

sponsor is Trina Ludvik.

Connie Wu, a senior at Paul Lawrence Dunbar High School in Lexington, KY, received an APS award for the best physiology project at the Kentucky American Water Science Fair. APS member Kenneth S. Campbell of the University of Kentucky was a judge on behalf of the APS and presented Wu with her award. The title of her project is "PCR Cloning and Functional Characterization of Mouse CPI-17 Promotor." Her teacher and sponsor is Heidi Anderson.

Qiyun Jiang, a senior at Bergen County Academies in Fort Lee, NJ, received an APS award for the best physiology project at the North Jersey Regional Science Fair. APS member Sue Shapses of Rutgers University was a judge on behalf of the APS and presented the award. The project is "Effects of ACE Inhibitors on TGF-B1 Expressions in Human Dermal Fibroblast and Keratinocytes." The teacher and sponsor is Donna Leonardi.

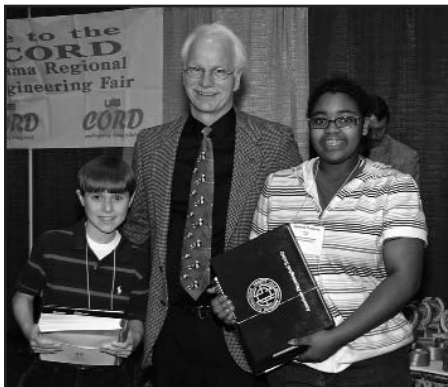
Tatiana Lupashina, a sophomore at Little Rock Central High School in Little Rock, AR, received an APS award for the best physiology project at the Central Arkansas Regional Science Fair. APS member Parimal Chowdhury of the University of Arkansas for Medical Science was a judge on behalf of the APS

and presented Lupashina with her award. The title of her project is "Stop the HIV virus." Her teacher and sponsor is Melissa Donham.

Mustafa Iqbal, a senior at John Jay Science and Engineering Academy in San Antonio, TX, received an APS award for the best physiology project at the 2009 Alamo Regional Science Fair. APS members Ron Seaman of General Dynamics Ais and Kathy Ryan of US Army Institute was a judge on behalf of the APS and presented Iqbal with his award. The title of his project is "Effects of Inbreeding on the Longevity of Bernese Mountain Dogs." His teacher and sponsor is Mr. Schmiedel.

Angela Menna, a student at Godwin High School in Richmond, VA, received an APS award for the best physiology project at the Metro Richmond Science Fair. APS member Helena Carvalho of Virginia Commonwealth University was a judge on behalf of the APS and presented Menna with her award. The title of her project is "Role of P2X7 inhibition in Caspase-1 Inhibition and Cardiac Remodeling in Mice." Her teacher and sponsor is Denise Williams.

Hannah McCorkindale, a student at Wayne High School in Wayne, NE, received an APS award for the best physiology project at the Nebraska Junior Academy of Science-Northeast



Amaris Thomas (right) of Cathedral School and Daniel Matos of OLV Elementary School both received an APS award for physiology project by APS Councillor J. Michael Wyss.



Mustafa Iqbal receives best physiology project presented by APS members Ron Seaman and Kathy Ryan.



Madeline Bernard receives an APS award for best physiology project at the St. Benilde science fair presented by APS member Lisa Harrison-Bernard.



Melissa Michaels of Musselman High school receives an award for her project “Pepped up or Pooped out” presented by APS member Jamil Talukder.



APS member Parimal Chowdhury presented an APS award to Tatiana Lupashina pictured with her teacher Melissa Donham.



William Black a 5th grader at Episcopal Day School receives the APS award for best physiology project by APS member Masako Isokawa. He is pictured here with his mom Mrs. Black and his teacher Mrs. Morfitt.

Regional Science Fair. APS member Barbara Engebretsen of Wayne State College was a judge on behalf of the APS and presented McCorkindale with her award. The title of her project is “Is Perfect Water Perfect?” Her teacher and sponsor is Lee A. Brogie.

Joel Garcia, a student at Weslaco High School in Weslaco, TX, received an APS award for the best physiology project at her schools science fair. APS member Masako Isokawa of the University of Texas at Brownsville was a judge on behalf of the APS and presented Garcia with his award. The title of his project is “Study of Neuronal Plasticity in the Gastropod *Lymnaea Stagnalis*.” His teacher and sponsor is Daniel Plas.

Michelle Saur, a sophomore at North Florida Christian School in Tallahassee, FL, received an APS award for the best physiology project at the Capital Regional Science and Engineering Fair. APS member P. Bryant Chase of the Florida State University was a judge on behalf of the APS and presented Saur with her award. The title of her project is “Sleep on it Part II: Study of the effects of caffeine on insomnia.” Saur also received first place in her division and a US PHS award. She attended the state S&E fair in April. Her teacher and sponsor is Shenita Moore.

Roberto Guajardo, a senior at Weslaco East High School in Weslaco, TX, received an APS award for the best physiology project at the Rio Grande

Valley Regional Science and Engineering Fair. APS member Lila P. LaGrange of the University of the Incarnate Word Feik School of Pharmacy was a judge on behalf of the APS and presented Guajardo with his award. The title of his project is “Apoptosis in *Lymnaea* Neurons.” His teacher and sponsor is Daniel Plas.

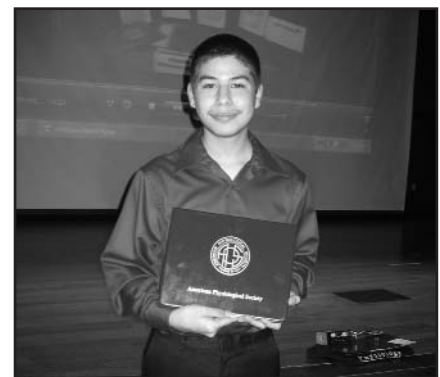
Melissa J. Michaels, a junior at Musselman High School in Inwood, WV, received an APS award for the best physiology project at the West Virginia State Science and Engineering Fair. APS member Jamil Talukder of the West Virginia University School of Medicine was a judge on behalf of the APS and presented Michael with her award. The title of her project is “Pepped up or



Jordyn Wade of Moody Middle School received an APS award for best physiology project presented at Powhatan High School by APS member Helena Carvalho.



Angela Menna of Godwin High School receives an APS award for best physiology project at Powhatan High School by APS member Helena Carvalho.



Roberto Guajardo of Weslaco East High School was presented with the best physiology project by APS member Lila LaGrange.



**Joel Garcia was presented the award for the best physiology project at the Rio Grande Valley Regional Science and Engineering Fair. His teacher Daniel Plas is also pictured. APS member Masako Isokawa presented the award.**

Pooped out." Her teacher and sponsor is Theresa Deters.

Evan Klei, a freshman at Pine-Richland High School in Gibsonia, PA received an APS award for the best physiology project at the 70th Pittsburgh Regional Science Fair. APS member Ann T. Hanna-Mitchell of the University of Pittsburgh was a judge on behalf of the APS and presented Klei with his award. The title of his project is "Effects of Inbreeding on the Longevity of Bernese Mountain Dogs." His teacher and sponsor is Mr. Schmiedel.

Jordyn Wade, a student at Moody Middle School in Richmond, VA, received an APS award for the best physiology project at Metro Richmond Science Fair. APS member Helena Carvalho of Virginia Commonwealth University was a judge on behalf of the APS and presented the award. The title of her project is "The Effect of Time on Vitamin C in Orange Juice." The teacher and sponsor is Marivic Mitchell.

Isabella Osborne, a student at St. Mary of the Assumption in Mentor, OH, received an APS award for the best physiology project at the Northeast Ohio Science and Engineering Fair. APS member Cassandra Talerico of the Cleveland Clinic was a judge on behalf of the APS and presented Osborne with her award. The title of her project is



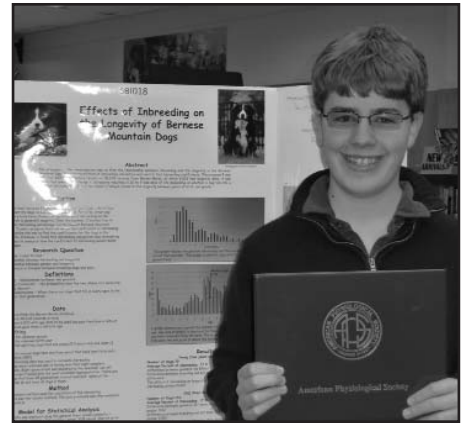
**APS member Barbara Engebretsen presents an APS award to Hanna McCorkindale for the best physiology project at the NJAS State competition.**

"Balloonercise: Does exercise increase lung capacity?"

Krista Bustamante, a fifth grader at Walter Clark Middle School in El Paso, TX, received an APS award for the best physiology project at the Sun Country Regional Science Fair. APS member Kristin Gosselink of the University of Texas at El Paso was a judge on behalf of the APS and presented Bustamante with her award. The title of her project is "Iron Deficiency Anemia." Her teacher and sponsor is Rosalinda Mondrago.

Madeline T. Bernard, a seventh grader received an APS award for the best physiology project at the St. Benilde science fair. The title of her project is "Greenbags: Do they really work?" Her teacher and sponsor is Diane McCann. APS member Lisa M. Harrison-Bernard of the Louisiana State University Health Science Center was a judge on behalf of the APS and presented Bernard with her award.

William Black, a fifth grader at Episcopal Day School in Brownsville, TX, received an APS award for the best physiology project at her schools science fair. APS member Masako Isokawa of the University of Texas at Brownsville was a judge on behalf of the APS and presented the award. The title of his project is "Gravitropism." His teacher and sponsor is Sandra Morfitt.



**Evan Klei of Pine-Richland High School was presented an APS award for best physiology project by APS member Ann T. Hanna-Mitchell.**



**Audrey Smoak of Coastal Christian Prep received an APS award for best physiology project presented by APS member Monika Gooz.**

Daniel Matos, a fifth grader at OLV Elementary School received an APS award for the best physiology project. The title of his project is "Metabolic efficiency." His teacher and sponsor is Lorrie Steele. APS Councillor J. Michael Wyss of the University of Alabama at Birmingham was a judge on behalf of the APS and presented the award.

Audrey Smoak, a sixth grader at Coastal Christian Prep received an APS award for the best physiology project. The title of her project is "Does being angry increase heart rate?" Her teacher and sponsor is Beth Wojcik. APS member Monika Gooz of the Medical University of South Carolina was a judge on behalf of the APS and presented the award. ❖

## Research Budgets FY 2009-2010

### FY 2009

The fiscal year 2009 appropriations cycle was finally brought to a close with passage of an omnibus spending bill in March. The omnibus includes funding for the NIH (\$30.3 billion), NSF (\$6.5 billion) and NASA (\$17.4 billion). Funding for Medical and Prosthetic Research at the VA was passed earlier at a level of \$510 million.

### FY 2010 Budget Request

In late February President Obama issued a preliminary budget plan for FY 2010 that broadly outlines the Administration's priorities. The budget plan specifies the funding level for the NSF and NASA, but not for the NIH or for VA medical and prosthetic research (see Table 1). Congress will begin its consideration of individual appropriations bills this summer.

### Advocacy for FY 2010

With the stimulus money slated to be spent during fiscal years 2009 and 2010, there is considerable concern about what will happen in FY 2011 when the stimulus funds are spent and there is a return to normal budgeting. FASEB and other biomedical research advocates are calling for a 7% increase for the NIH budget in FY 2010. This is consistent with President Obama's campaign promise to double the budget for basic research over the next ten years. APS will join the Coalition for National Science Funding and FASEB in endorsing the Administration's request of \$7.0 billion for the NSF in FY 2010. The APS will join both the Friends of VA and FASEB to request \$575 million for VA medical and prosthetic research in FY 2010. NASA funding recommendations are currently under development.

Advocacy will focus on the importance of predictable and sustainable budget increases for research agencies, and the need to achieve levels of funding that will allow scientists to build upon the capacity that is being generated with the infusion of stimulus funds.

1. <http://www.whitehouse.gov/omb>
2. [http://opa.faseb.org/pdf/2009/Funding\\_Recommendation.3.18.09.pdf](http://opa.faseb.org/pdf/2009/Funding_Recommendation.3.18.09.pdf)
3. <http://www.cnsfweb.org/CNSFFY2010LeaveBehind.pdf>
4. <http://www.friendsofva.org/funding.htm>

## Acting NIH Director Condemns Violence, Defends Animal Research

In a statement issued on April 17, Acting NIH Director Raynard Kington condemned violence against researchers who conduct humane animal research. Kington stressed that "the NIH stands firmly in support of the biomedical research it funds to advance the health of the Nation and the world." His statement, which was issued just days before the first pro-medical research rally in the US, reiterated that animal research is well regulated. He pointed out that threats against researchers endanger not only the researchers and their families, but also "the health of the entire nation."

Kington listed the subjects of study most often targeted by extremists as schizophrenia, bipolar disorder, ADHD, and addiction. He pointed out the impact these illnesses have on individuals, families, and the country at large—a cost of "more than half a trillion dollars a year in combined medical, economic, criminal, and social impact."

Kington labeled the threats to life and destruction of property as terrorism and noted a "more subtle but devastating toll" beyond these immediate threats.

He warned that "if more scientists, fearing for themselves and their families, leave their research...[i]rretrievable time will be lost in finding as yet undiscovered treatments and cures."

## Animal Rights Bomber Added to FBI Most Wanted

On April 21, the FBI announced that it had added animal rights extremist Daniel Andreas San Diego to its Most Wanted List. San Diego is the first person accused of domestic terrorism to be placed on the FBI's Most Wanted List.

San Diego, a member of Stop Huntingdon Animal Cruelty (SHAC), is wanted for his alleged involvement in two bombings of biotech companies affiliated with Huntingdon Life Sciences. In 2003, he is alleged to have set off two bombs at Chiron Life Science Center in Emeryville, CA. FBI Special Agent Joe Schadler noted that "the second bomb actually was wrapped in nails, and we believe it was intended to harm or kill the first responders."

The second incident involved a company in Pleasanton, CA. One month after the Chiron bombs, San Diego allegedly set off a bomb designed to be even more destructive than the first two. The device was placed near the glass front doors of the building's lobby. Luckily, no one was harmed in the explosions.

The Assistant Director of the FBI Counterterrorism Division said that San Diego was added to the list "to increase public awareness about [San Diego]" and "to aid in his arrest." San Diego has several tattoos on his person depicting burning buildings, though he may have covered these with new tattoos. The FBI is offering a reward of up to \$250,000 for information leading directly to his arrest.

Table 1. Agency funding levels for fiscal years 2008-2010.

	FY 2008	FY 2009	FY 2010 Preliminary Request <sup>1</sup>	ARRA Stimulus Funds	APS FY 2010 Request
NIH	\$ 29.4 billion	\$ 30.3 billion		\$10.4 billion	7% over FY 2009 <sup>2</sup>
NSF	6.0 billion	6.5 billion	\$ 7.0 billion	3.0 billion	\$7.0 billion <sup>3</sup>
VA	480 million	510 million		1.25 billion (not all Med. Pros. Rsch.)	\$575 million <sup>4</sup>
NASA	17.4 billion	17.8 billion	18.7 billion	1.0 billion	TBD

<sup>1</sup> <http://www.whitehouse.gov/omb>

<sup>2</sup> [http://opa.faseb.org/pdf/2009/Funding\\_Recommendation.3.18.09.pdf](http://opa.faseb.org/pdf/2009/Funding_Recommendation.3.18.09.pdf)

<sup>3</sup> <http://www.cnsfweb.org/CNSFFY2010LeaveBehind.pdf>

<sup>4</sup> <http://www.friendsofva.org/funding.htm>



## UCLA Community Stands Up to Extremists

On April 22, over 700 supporters of the humane use of animals in research came to UCLA to be part of the first pro-biomedical research demonstration in the United States. The rally was organized by the new group UCLA Pro-Test. Named after the ground breaking UK movement, UCLA Pro-Test seeks to offer a voice to researchers who have been targeted by animal rights extremists. It provides information to counter-balance inflammatory claims and draws attention to the invaluable role animal research plays in developing new medical treatments. As Americans for Medical Progress Chairman, John Young told a reporter, "most people don't have first hand knowledge of how and why animals are used in research, so it's sort of a mystery to them and it's very easily exploited by the extremists."

Timed to coincide with the annual animal rights protests called World Week for Animals in Laboratories (WWAIL), UCLA Pro-Test's first rally brought media attention to the value of research and the dangerous tactics of extremists. Media outlets that covered

the rally included the *Los Angeles Times*, *CNN*, *The New York Times*, *United Press International*, *The Boston Globe*, *Nature*, *Science*, local radio and television stations, and science blogs. The historical event was even covered live via Twitter by *Science* correspondent Greg Miller. In the end, Pro-Test participants outnumbered a rival anti-research rally by well over ten to one.

For years UCLA has been a primary target of animal rights extremists seeking to stifle animal research through tactics ranging from death threats to fire bombs. After his car was destroyed by a fire bomb in March of this year, neuroscientist David Jentsch decided to stand up to the extremists. He reached out to like-minded members of the UCLA community—students, faculty and staff—and founded UCLA Pro-Test. Says Jentsch: "Now is the time to stand up and say 'enough is enough.'"

The original Pro-Test was founded in Oxford in January 2006 by 16-year-old Laurie Pycroft and students from Oxford University in reaction to the "climate of fear and intimidation" animal rights extremists had created there. The Oxford Pro-Test group brought national and international attention to its cause and helped to turn the tide of popular

opinion in the UK.

Tom Holder, one of the founders of the original Pro-Test as well as the founder of the US-based group Speaking of Research, introduced the speakers at the UCLA event. Executive Vice Chancellor, Provost Scott Waugh cited specific medical breakthroughs made possible by UCLA animal researchers and stressed UCLA's commitment to research and the safety of its researchers. Medical research is "one of the most important ways that we can fulfill our mission as a public research university," Waugh said.

Lynn Fairbanks, one of the first UCLA researchers to be targeted, also spoke at the rally. Fairbanks said she was speaking not as a researcher who had been harassed, but as the mother of a child with Type I Diabetes: "Animal research saved my son's life." She explained that "a relatively small number of animals contributed to saving the lives of more than a million children....and there's still so much more to do."

AMP's Young told the crowd "be proud of what you do, share what you do with others, engage in public outreach and become part of the solution to public ignorance." ♦

## Instant Access to Accepted Papers Online

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S-4-09

## 2009 Media Fellow to Work at Chicago Tribune

The APS will once again sponsor a AAAS Mass Media Fellow for 2009: Vanessa McMains of the Graduate Partnership Program of the National Institutes of Health and Johns Hopkins University. She did her undergraduate work at the University of Maryland.

McMains will work as a science journalist this summer at the Chicago Tribune. The AAAS fellows spend 10 weeks developing their ability to communicate complex scientific issues to non-scientists and improving public understanding of science. Participating media outlets include newspapers, magazines, online news outlets, and radio and television stations.

Past APS-sponsored fellows have worked at the Sacramento Bee, the Milwaukee Journal-Sentinel, Scientific American and WNBC-TV in New York City.

McMains has already done a fair amount of science writing. She has contributed to *The NIH Catalyst*, a bimonthly newsletter published for the clinical and basic researchers within NIH. She also writes for *NIH Research Matters* and *The GSChronicles*, an e-newsletter for graduate students at NIH.

## Experimental Biology 2009

The Communications Department distributed 11 press releases related to

abstracts presented at Experimental Biology this year. The releases, which you can find at [www.the-aps.org/press](http://www.the-aps.org/press), are as follows:

Smoke From Cigarettes, Cooking Oil, Wood, Shift Male Cardiovascular System Into Overdrive

Exercise-Exposed Fetuses Have Improved Breathing Movements In Utero, A Marker For Healthy Development

Differences Among Exercisers And Non-Exercisers During Pregnancy

Low Lead Levels In Children Can Affect Cardiovascular Responses To Stress

Stress Of Isolation Early In Life Linked To Enhanced Juvenile Response To Cocaine

Oral Contraceptives Impair Muscle Gains In Young Women

A Computational Model Examines the Pathways of Alzheimer's That Strikes at the Young

"Mirthful Laughter," Coupled With Standard Diabetic Treatment, Raises Good Cholesterol And May Lower Heart Attack Risk

"ANTEDRUGS": A Safer Approach To Drug Therapy

Caffeine Appears To Be Beneficial In Males—But Not Females—With Lou Gehrig's Disease

Drugs For Male Sexual Dysfunction Show Promise In The Lab For Treating Female Sexual Disorders

In addition, the Communications Department distributed the following EB-related releases:

Translating the Conversation Between the Brain and Blood Vessels

Inhaling A Heart Attack: How Air Pollution Can Cause Heart Disease

Symposium to Look at Genetic Basis of Exercise

These releases generated a considerable buzz in the media. Some of the media that ran stories were:

ABC News

BBC News (UK)

Calcutta Telegraph

Channel 4 News (UK)

Daily Telegraph (Australia)

Forbes

Fox News

Mail on Sunday (UK)

Market Watch

MSNBC

Reuters

Scotsman

Sydney (Australia) Morning Herald

Tehran Times

US News & World Report

WebMD

We also highlighted the forum on Environmental Cardiology and the forum on the Genetics of Exercise in podcasts leading up to the conference. We plan to have our Cannon and Bowditch lecturers appear on the May podcast. Don't forget to listen at [www.lifelines.tv](http://www.lifelines.tv). ❖

## FREE Necessary Color for Member Authors



**Regular or Student Members** of the American Physiological Society (APS) who are first or last authors of articles in any of the APS research journals get **FREE scientifically necessary COLOR**.

These APS journals are listed below. If you are not yet an APS Member and are planning to submit a manuscript that requires color to any of these journals as a first or last author, then you need to apply for membership today in APS. We provide several convenient ways to apply for Membership. Just go to our web site and select your choice at: [www.the-aps.org/membership/application.htm](http://www.the-aps.org/membership/application.htm)



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### The APS Research Journals

- American Journal of Physiology (AJP consolidated)
- AJP-Cell Physiology
- AJP-Endocrinology and Metabolism
- AJP-Gastrointestinal and Liver Physiology
- AJP-Heart and Circulatory Physiology
- AJP-Lung Cellular and Molecular Physiology
- AJP-Regulatory, Integrative and Comparative Physiology
- AJP-Renal Physiology
- Advances in Physiology Education
- Journal of Applied Physiology
- Journal of Neurophysiology
- Physiological Genomics

## Postdoctoral Positions

**Postdoctoral position:** A position in cell biology and lung physiology is available in the laboratory of Dr. Patrick Arndt in the Division of Pulmonary, Allergy, and Critical Care Medicine at the University of Minnesota. The laboratory focuses on the investigation of signaling pathways in neutrophils and their relation to acute lung injury and lung inflammation. The current project is examining the role of the syndecan family of proteoglycans on the regulation of chemokine-induced signaling in both neutrophils and a neutrophil-like cell line. Specific focus is on activation of the mitogen activated protein kinase (MAPK) family. Results from these studies will be extended to a mouse model of acute lung injury. Techniques utilized include immunoprecipitation, *in vitro* kinase assays, Western blotting, cell culture, and RNA interference. A background in cell and molecular biology as well as cell culture is preferred. Experience in murine models of acute inflammation would also be beneficial. Applicants should hold a doctoral degree (PhD or equivalent) in Biomedical Sciences. Review of applicants will begin immediately and will continue until the position is filled. Interested applicants should send a letter of application indicating research experience and interests via Email to Dr. Arndt (arndt108@umn.edu). Include a curriculum vitae as well as names and contact information for two references.

**Postdoctoral Fellowship:** Cardiac pharmacology and physiology. There is an opening for a postdoctoral researcher in our group. The position is in the College of Pharmacy at the Ohio State University. We study pathologic changes in cardiac electrophysiology at the integrated, myocyte and molecular levels, with a specific interest in redox signaling. Current studies are focused on heart failure, atrial fibrillation and post-infarction sudden cardiac death. Experimental approaches include cardiac myocyte isolation, whole-cell patch-clamp recordings, standard molecular and immunohistochemical assays. Other techniques routinely used in the

group include whole animal electrophysiological and echocardiographic studies. There is also access through the Davis Heart and Lung Research Institute to the following core laboratories: integrated physiology, bioinformatics, flow cytometry, EPR-NMR, and proteomics. The applicant should have a PhD or equivalent doctoral degree in a relevant field; a strong background in cardiac physiology or electrophysiology is desirable. Projects are supported by grants from the NIH. Competitive salaries are offered. Interested applicants should send a statement of research interest, curriculum vitae, and contact information for three references to Dr. Cynthia Carnes; Email: carnes.4@osu.edu.

**Postdoctoral Position: Ocular Cell and Molecular Biology:** An energetic and organized postdoc is sought to join an active ocular biology research lab at Indiana University, Bloomington. Current projects focus on the role of carbonic anhydrases and lactate metabolism in tissue osmotic homeostasis and examining the role of a newly described sodium dependent borate transporter, NaBC1, on endothelial cell redox state, proliferation and survival. Mutations in NaBC1 are linked to accelerated corneal endothelial cell loss in Corneal Dystrophies. *In vitro* methods used include: fluorescent probe technology for analysis of physiological function, westerns, IP, confocal microscopy, flow cytometry, siRNA, qRT-PCR, and Elisa. We are developing an *in vivo* approach to test hypotheses generated from *in vitro* studies by delivery of shRNA encoding viruses into the anterior chamber of the eye to knockdown expression of key transport proteins. Candidates should have a doctorate degree and broad cell and molecular skills. Applicants should send a letter outlining their past research experience and interests, a CV, and names of three references to Dr. Joe Bonanno, jbonanno@indiana.edu.

**Postdoctoral Position:** A postdoctoral position is available in the Vascular Bioengineering Laboratory of Larry V. McIntire. The research focus in our laboratory is the vascular endothelial cell and its response to cyclic strain and shear stress, the mechanical forces to

which this cell type is subjected *in vivo*, and the mechanisms in adherence of leukocytes and platelets to the injured vessel wall. The project will involve investigating the effects of different patterns of shear stress on gene and protein expression, and zinc trafficking in cultured vascular endothelial cells. The techniques involved (but not limited to) are running multiple "flow loops," cell culture, qRT-PCR, siRNA, fluorescence microscopy, flow cytometry, and Westerns. Must be US citizen or permanent resident. Send CV including references to suzanne.eskin@bme.gatech.edu

## Research Positions

**Interdisciplinary: Research Physiologist/Research Nutritionist;** GS-0413/0630-12/13/14; Salary Range of \$67,613 to \$123,519 per annum. The USDA, Agricultural Research Service (ARS) at the Grand Forks Human Nutrition Research Center, Grand Forks, ND, seeks a permanent, full-time research scientist to plan, implement, and report the results of research addressing the influences of dietary and physical activity factors on inflammation and bone health. Incumbent conducts both independent research and team-based research to provide scientific evidence upon which food and nutrition guidance can be based. The incumbent will address the roles of dietary and physical activity factors influencing inflammation and bone health. Research protocols may include controlled feeding studies of humans with biochemical and/or clinical outcome assessments, and animal model studies of specific mechanisms. A comprehensive benefits package includes paid sick leave and annual leave, life and health insurance, a savings and investment plan (401K type), and a Federal retirement plan. For more information on the research program and/or position, or to have a printed copy of the vacancy announcement mailed to you, please call Isela Losek at 701-795-8370 or access information on-line at <http://www.afm.ars.usda.gov/divisions/hrd/index.html>. Send applications for announcement ARS-X9W-0144 to: USDA, Agricultural Research Service, Human Resources Division, Attn: Keli A. Martin, 5601

Sunnyside Avenue, Stop 5106, Beltsville, MD 20705-5106, Fax: 301-504-1535; Email: [scirecruit@ars.usda.gov](mailto:scirecruit@ars.usda.gov). Applications must be marked ARS-X9W-0146 and postmarked by May 26, 2009. US Citizenship is required and must be verified before entrance on duty. [EOE]

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**Research Nutritionist:** GS-0630-12/13/14; Salary Range of \$67,613 to \$123,519 per annum. The USDA, Agricultural Research Service (ARS) at the Grand Forks Human Nutrition Research Center, Grand Forks, ND, seeks a permanent, full-time research scientist to plan, implement, and report the results of research addressing the underlying metabolic functions affected by diet and physical activity in the maintenance of healthy body weight. Incumbent conducts both independent research and multidisciplinary, team-based research to provide scientific evidence upon which food and nutrition guidance can be based. The incumbent will use the tools of metabolomics and/or proteomics to address the factors affecting an individual's responses to dietary and physical activity interventions, including the propensity for weight gain. A comprehensive benefits package includes paid sick leave and annual leave, life and health insurance, a savings and investment plan (401K type), and a Federal retirement plan. For more information on the research program and/or position, or to have a printed copy of the vacancy announcement mailed to you, please call Isela Losek at 701-795-8370 or access information on-line at <http://www.afm.ars.usda.gov/divisions/hrd/index.html>. Send applications for announcement ARS-X9W-0145 to: USDA, Agricultural Research Service, Human Resources Division, Attn: Keli A. Martin, 5601 Sunnyside Avenue, Stop 5106, Beltsville, MD 20705-5106, Fax: (301) 504-1535; Email: [scirecruit@ars.usda.gov](mailto:scirecruit@ars.usda.gov). Applications must be marked ARS-X9W-0145 and postmarked by May 26, 2009. US Citizenship is required and must be verified before entrance on duty. [EOE]

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**Interdisciplinary: Research Physiologists/Research Nutritionist/Research Biologist, GS-0413/**

**0630/0401-12/13/14;** Salary Range of \$67,613 to \$123,519 per annum. The USDA, Agricultural Research Service (ARS) at the Grand Forks Human Nutrition Research Center, Grand Forks, ND, seeks a permanent, full-time research scientist to join a developing team to solve the problem of obesity and related illnesses. This scientist will develop a research program involving physical activity and dietary interventions to promote physiological function and health in the context of maintaining a healthy body weight. Incumbent will conduct independent and multidisciplinary, team-based research to evaluate the efficacy and effectiveness of physical activity, dietary and behavioral interventions to prevent obesity and maintain healthy body weight and will have the opportunity to develop/enhance skills in conducting human studies for the US population. A comprehensive benefits package includes paid sick leave and annual leave, life and health insurance, a savings and investment plan (401K type), and a Federal retirement plan. For more information on the research program and/or position, or to have a printed copy of the vacancy announcement mailed to you, please call Isela Losek at 701-795-8370 or access information on-line at <http://www.afm.ars.usda.gov/divisions/hrd/index.html>. Send applications for announcement ARS-X9W-0144 to: USDA, Agricultural Research Service, Human Resources Division, Attn: Keli A. Martin, 5601 Sunnyside Avenue, Stop 5106, Beltsville, MD 20705-5106, Fax: 301-504-1535; Email: [scirecruit@ars.usda.gov](mailto:scirecruit@ars.usda.gov). Applications must be marked ARS-X9W-0144 and postmarked by May 26, 2009. US Citizenship is required and must be verified before entrance on duty. [EOE]

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**Senior Scientist:** Urogenix, Inc., a subsidiary of Astellas Pharmaceuticals, Inc., is recruiting a PhD-level senior scientist to oversee preclinical in vivo pharmacology experiments aimed at discovery of new treatments for lower urinary tract dysfunction. Strong candidates should be familiar with, and/or be willing to develop, predictive rodent models for diabetes, obstructive voiding, and urinary incontinence. The position

supervises two senior research associates and collaborates closely with other PhD-level Urogenix scientists. Excellent communication skills are required for close interactions with scientific colleagues at Astellas Pharmaceutical research laboratories in Japan. Training in neurotransmitter-based pharmacology is required. Experience in central and/or peripheral autonomic control is an asset, however scientists with training in neurophysiology, for example pain regulation (e.g., G protein receptors and ion channels) or spinal motor neuron neurophysiology, are also encouraged to apply. Behavioral neuropharmacologists with good surgical skills would also be considered. Previous drug discovery research experience is an advantage. Please go to this URL address to apply: [http://www.astellas.appone.com/Menu.asp?ClientID=883&B\\_ID=33&State=NC](http://www.astellas.appone.com/Menu.asp?ClientID=883&B_ID=33&State=NC).

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**Postdoctoral Research Associate:** A Postdoctoral Research Associate position is available immediately in the Department of Cellular and Integrative Physiology at the University of Nebraska Medical Center to participate in cardiovascular/respiratory research, which includes the function and electrophysiology of autonomic neurons. Emphasis is placed on the study of chemo- and baro-sensory reflexes and control of sympathetic nerve activity in disease states such as heart failure, hypertension, and diabetes. The successful applicant will be expected to master modern cellular, molecular, electrophysiological and integrative approaches to address questions related this area of research. Although outstanding candidates in all areas of physiology will be considered, special consideration will be given to individuals who will complement our existing strengths in neural control of the cardiovascular/respiratory system and has previous experience in one or more of the research approaches described herein. Please send CV, description of research interests and three letters of reference to: Harold D. Schultz, PhD, Department of Cellular and Integrative Physiology, University of Nebraska Medical Center, 985850 Nebraska Medical Center, Omaha, NE 68198-5850. ❖

## Abboud Receives AAP Kober Medal

APS Member Francois Abboud, University of Iowa faculty member, has been selected to receive the highest award in academic internal medicine—the 2009 George M. Kober Medal from the Association of American Physicians. The award is named after George Kober, a pioneer in public health reform in the late 1800s and early 1900s, and recognizes physicians who are leaders in internal medicine. Abboud's research studies have advanced knowledge about the interplay between the nervous system and the heart, enabling doctors to better treat heart disease, obstructive sleep apnea, high blood pressure and neurocardiogenic syncope, which is a condition that causes loss of consciousness due to a drop in blood pressure.

Abboud received the award April 26 at the joint meeting of the Association of American Physicians and the American Society for Clinical Investigation. The award was presented to Abboud by UI colleague Michael Welsh, who delivered the annual Kober lecture, on "Pursuing Cystic Fibrosis," at the association's meeting. The honor of presenting the lecture is given to a distinguished member who, as in the case of the medal honoree, has significantly contributed to advancements in the medical sciences.

## Ann C. Bonham to Join AAMC as Chief Scientific Officer

APS Member, Ann C. Bonham, has been appointed the next AAMC chief scientific officer effective July 1. Bonham is an accomplished academic scientist and leader who currently serves as executive associate dean for academic affairs and professor of pharmacology and internal medicine at the University of California, Davis (UC, Davis). As executive associate dean, Bonham oversees the institution's research programs, focusing on high-impact discoveries, translational research, and interdisciplinary, collaborative research with public, private, and industry partners. In addition, Bonham played an integral leadership role in UC, Davis being awarded one of the inaugural CTSA grants from the NIH and currently serves as the chair of the UC, Davis NIH Clinical and

Translational Science Center's Executive Committee. Bonham previously served as chair of the department of pharmacology, where over a two-year period she rebuilt the department. She also was vice chair of research for the department of internal medicine and associate chief of the division of cardiovascular medicine.

Bonham earned her doctoral degree in pharmacology from the University of Iowa College of Medicine in 1986. Prior to joining the UC, Davis faculty, she completed a postdoctoral fellowship at Northwestern University School of Medicine in 1989.

## Florant Honored by Colorado State University's College of Natural Sciences

Colorado State University's College of Natural Sciences announced the recipients of their Teaching and Mentoring Awards. Included in the groups of five recipients was APS Member Gregory L. Florant, professor of biology, who was recognized for Excellence in Mentoring and Undergraduate Research.

The awards were established in 1995 to recognize efforts to help students realize their full learning potential; to encourage students to set high standards for scholarship, integrity, and independence; and to be receptive to students' concerns.

Hughes Abriel is currently the Director, Department of Clinical Research, at the University of Bern, Switzerland. Prior to this position, Abriel was an Assistant Professor, in the Department of Pharmacology and Toxicology at the University of Lausanne, Switzerland.

Kenton Paul Arkill is presently a Postdoctoral at the University of Bristol in the Department of Physiology and Pharmacology, Bristol, UK having moved from the University of Exeter School of Physics, UK.

George W. Booz is currently an Associate Professor in the Department of Medicine at the University of Mississippi Medical Center, Jackson, MS. Previously, Booz was an Assistant Professor in the Cardiovascular Research Institute at Texas A&M University Health Science Center.

Robert Carter is currently a Deputy for Medical Systems Science and Technology in the Medical Directorate, USAMRMC, Alexandria, VA. Carter had been an Exchange Military Physiologist in the Department of Factors, Centre Recherche, Service Sante Armees, La Tronche, France.

Monica Ann Daley a Lecturer at Royal Veterinary College Structure and Motion Lab, Hatfield, Herts, UK. Daley was formerly a Postdoctoral Researcher in the Department of Kinesiology at the University of Michigan, Ann Arbor.

Mita Das is currently an Associate Professor in the School of Pharmacy at the University of Wyoming, Laramie, WY. Das had been an Assistant Professor in the Department of Pediatrics at the University of Colorado Health Sciences Center, Denver.

Opher Donchin is currently a Doctor in the Department of Biomedical Engineering at the Ben-Gurion University, Beersheva, Israel, having left the position of Postdoctoral Fellow in the Department of Biomedical Engineering at the Johns Hopkins University, Baltimore, MD.

Hans C. Dreyer is currently an Assistant Professor of Human Physiology at the University of Oregon, Eugene. Prior to this position, Dreyer was a Research Assistant Professor in the Department of Physical Therapy, University of Texas Medical Branch, Galveston, TX.

Charles Lee Dumke is currently an Associate Professor at the University of Montana, Missoula. Previously, Dumke was an Associate Professor at the Appalachian State University in the Department of Health & Leisure Exercise Science, Boone N.C.

Timothy John Fairchild is presently a Senior Lecturer at the Murdoch University, School of Chiropractic and Sports Science, Murdoch, Western Australia. Previously, Fairchild was an Assistant Professor at Syracuse University in the Department of Exercise Science.

Mineko Fujimiya is currently a Professor in the Department of Anatomy at the Sapporo Medical University School of Medicine, Sapporo, Japan. Prior to this position, Fujimiya was an Associate Professor in the Department of Anatomy, Shiga University of Medicine, Shiga, Japan.

Hidemi Fujino is currently a Professor at the Kobe University Graduate School of Health, Kobe, Japan. Previously, Fujino was a Researcher at the University of California, Los Angeles, CA.

James W. Gnadl is currently a Program Director of the NSC, Neuro Science Center, NINDS, Rockville, MD. Prior to this position, Gnadl was an Associate Professor in the Department of Physiology & Biophysics at Howard University, Washington, DC.

Hirshi Hayashi has moved to the Department of Nurs at Tokyo Ariake University of Medicine and Health Science, Shizuoka, Japan having moved from the Atami Hospital International University of Health and Welfare, Koto-ky City, Japan.

Lufei Hu is currently a Research Scientist II in the Department of Pharmacology, Gilead Science, Westminster, CO. Prior to this position, Hu was a Senior Scientist in the Department of Cardiovascular Disease, Boehringer Ingelheim Pharm., Ridgefield, CT.

Zhu-Qiu Jin is currently an Assistant Professor at the South Dakota State University in the College of Pharmacy, Bookings, SD. Jin was formerly a Research Specialist at the University of California, San Francisco.

Pedro A. Jose is presently at the Children's National Medical Center in the Center for Molecular Physiology, in Washington DC. Previously, Jose was a Professor at the Georgetown University in the Department of Pediatrics, Division of Nephrology, Washington, DC.

Flavia Jung is currently an Associate Professor in the Department of Pediatrics at Georgetown University Medical Center, Washington, DC. Jung was an Associate Professor in the Department of Pediatrics at the University of Maryland, Baltimore, MD.

Gregory J. Kaczorowski has taken a position as Director at Kanalis Consulting, Edison, NJ. Prior to this position, Kaczorowski was a Senior Director at Merck Research Labs, Rahway NJ.

Jason K. Kim has taken a position at the University of Massachusetts Mouse Phenotyping Center in Worcester, MA. Prior to this position, Kim was at the Pennsylvania State University College of Medicine in the Department of Cellular and Molecular Physiology, Hershey, PA.

Yasuhiro Kimura is now an Associate Professor at Beppu University in the Department Food and Nutrition, Beppu Japan. Kimura had been a Research Associate in Memphis TN.

Jeffrey Kramer is currently Director of Clinical Operations at Spinal Modulation, Menlo Park, CA. Previously, Kramer was Director of Trans and Clinical Research at Millennium Pain Center, Bloomington, IL.

Kun-Ze Lee is currently a Postdoctoral Associate in the McKnight Brain Institute at the University of Florida, Gainesville. Prior to this position, Lee was a Doctor in the Department of Physical Therapy, National Taiwan Normal University, Taiwan, Taiwan.

David J. Lefer is currently a Professor in Cardiothoracic Surgery at the Emory University School of Medicine, Atlanta, GA. Lefer had been a Professor of Medicine in the Division of Cardiology, Albert Einstein College of Medicine, Bronx, NY.

David Andrew Low has taken a position at the Imperial College of Neurovascular & Autonomic Medicine Unit, London UK. Low had been a Research Fellow at the Brunel University Center for Sports Medicine and Human Performance, UK.

Stuart B. Mazzone has taken a position of Research Fellow at the University of Queensland School of Biomedical Sciences, Queensland, Australia. Prior to this position, Mazzone was a CJ Martin Fellow at the University Melbourne, Australia.

Cheri L. McGowan is currently an Assistant Professor at the University of Windsor in the Department of Kinesiology, Windsor, Canada. Previously, McGowan was a Postdoctoral Fellow in the Department of Cardiology in the Faculty of Medicine at Mt. Sinai Hospital/University of Toronto, Canada.

John C. Middlebrooks is currently a Professor at the University of California, Irvine. Prior to this position, he was at the Kresge Hearing Research Institute, Ann Arbor MI.

Satoshi Mohri is a Professor at the Kawasaki Medical School in the First Department of Physiology, Kurashiki Japan. Mohri was an Assistant Professor at the Okayama University Graduate School in the Department of Cardiovascular Physiology, Okayama, Japan.

Takahiko Nakagawa is currently an Associate Professor in the Department of Medicine, Renal Disease, University of Colorado, Aurora. Previously, Nakagawa was a Research Assistant Professor in the Department of Medicine, Nephrology, University of Florida, Gainesville.

Akinori Noma is currently a Professor Emeritus in the Department of Bioinformatics, at the Ritsumeikan University, Shiga Prefecture, Japan. Prior to this position, Noma was a Professor in the Department of Physiology, Kyoto University Faculty of Medicine, Kyoto, Japan.

Yasutomo Nomura is presently a Professor at the Maebashi Institute of Technology in the Department of Information Engineering, Maebashi Japan. Nomura was formerly at the Yamagata University, in the Department of Environmental Life Sciences, Yonezawa Japan.

Shigehiko Ogoh is currently in the Department of Biomedical Engineering, Toyo University, Saitama, Japan. Previously, Ogoh was a Research Associate Professor in the Department of Integrative Physiology at the University of North Texas Health Science Center, Fort Worth, TX.

Takahiko Ono is presently Chief Doctor at Shimada Municipal Hospital in the Department of Internal Medicine, Shimada, Japan. Formerly, Ono was at the University of Shizuoka School of Pharmaceuticals in the Department of Molecular Medicine, Shizuoka, Japan.

Michael Paffett has moved to the Lovelace Respiratory Research Institute in Albuquerque, MN. Prior to this position, Paffett was a Postdoctoral Fellow in the Department of Cell Biology and Physiology at the University of New Mexico, Albuquerque, MN.

Joon Y. Park is currently an Assistant Professor at Temple University, Philadelphia, PA. Park was a Research Fellow in the Translational Medicine Branch at the National Institutes of Health, Bethesda, MD.

Daniel B. Passos, Jr., is presently at the Universidade Federal de Sergipe in the Department of Physiology, in Sao Cristovao-se, Brazil. He was formerly at the University of Iowa, Department of Psychology, Iowa City.

Ryan M. Pelis is now a Postdoctoral Fellow at Novartis Pharmaceuticals Corporation, Transplantation Sciences, East Hanover, NJ, having left the University of Arizona, Department of Physiology, Tucson.

Craig Frederick Plato has moved from his position as a Research Scientist II at Gilead Colorado, Westminster, CO to become a Research Scientist at Myogen in Boulder, CO.

Lawrence W. Raymond is currently the Director of Occupational and Environmental Medicine at the Carolinas Medical Center, Charlotte, NC, having moved from the University of North Carolina.

Andreas Reske has moved to the University of Dresden, in Germany. Prior to this position Reske was at the University of Leipzig, Germany.

Darren M. Roesch is currently an Assistant Professor in the Department of Endocrinology/Metabolism Lab at the University of Texas A&M Health Science Center, Kingsville, TX. Prior to this position Roesch was a Postdoctoral Research Fellow in the Department of Endocrinology/Metabolism at the Georgetown University, Washington, DC.

Eleni Roussa has taken a position at the University of Freiburg Institute for Anatomy and Cell Biology, Freiburg Germany. Previously, Roussa was at the University of Goettingen in the Department of Neuronatomy, Goettingen, Germany.

Katsushige Sato is currently a Professor in the Department of Health and Nutrition Sciences, Komazawa Women's University, Sakahama, Japan. Sato was an Associate Professor in the Department of Physiology at the Tokyo Medical and Dental University School of Medicine, Bunkyo-ku, Japan.

Robert H. Schor is currently an Associate Professor in the Department of Neurobiology/Anatomy, at the University of Rochester, Rochester, NY. Previously, Schor was an Associate Professor in the Department of Otolaryngology, University of Pittsburgh, PA.

Jeffrey Schwartz is currently a Professor in the Centre for Medicine & Oral Health Campus, Griffith University, Southport, Australia. Prior to this position, Schwartz was a Senior Lecturer in the School of Molecular and Biomedical Sciences, University of Adelaide, Australia.

Scott A. Shaffer is currently an Assistant Professor at the Institute of Marine Science and Ecology/Evolution Biology, University of California, Santa Cruz. Previously, Shaffer was an Assistant Professor in the Department of Biology, California State University, San Bernardino.

Jurichiro Shimizu is currently a Professor at the Hiroshima International University in the Department of Clinical Radiology, Higashi-Hiroshima, Japan. Previously, Shimizu was an Assistant Professor in the Department of Physiology II at Nara Medical University, Nara Japan.

Dewayne Townsend is currently an Assistant Professor at the University of Minnesota, Minneapolis. Prior to this position, Townsend was a Research Assistant Professor in the Department of Molecular at the University of Michigan, Ann Arbor.

Jason R. Treberg is currently a Postdoctoral Fellow at the Buck Institute, Novato, CA. Prior to this position, Treberg was a CIHR Postdoctoral Fellow in the Department of Biochemistry, St. John's University, St. John's, NF, Canada.

Lin Wang is presently at the University of California, San Diego, having moved from the Scripps Research Institute, Department of Chemistry, La Jolla, CA.

Yu-Feng Wang is currently an Assistant Professor in Research in the Department of Cellular Biology & Anatomy, LSU Health Science Center, Shreveport, LA. Previously, Wang was an Assistant Researcher in the Department of Cell Biology & Neuroscience at the University of California, Riverside.

Jeffrey J. Widrick is presently an Assistant Professor at the Spaulding Rehabilitation Hospital in the Department of Physical Medicine and Rehabilitation, Boston MA. Prior to this position, Widrick was an Associate Professor at the Oregon State University in the Department of Nutrition and Exercise Science, Corvallis.

Richard Wood is an Associate Professor in the Department of Nutrition at the University of Massachusetts, Amherst MA. Previously, Wood was at Tufts University, USDA HNRCA in the Department of Mineral Bioavailability Lab, Boston, MA.

Zhi-Qing Zhao is presently at the Mercer University School of Medicine in the Department of Biomedical Sciences, Savannah, GA. Zhao was formerly at the Emory University School of Medicine in the Department of Cardiology Surgery, Atlanta, GA. ❖

## John R. Brobeck

44th APS President  
1914–2009

John R. Brobeck, MD, PhD, who served The American Physiological Society as the Society's 44th President from 1971–1972 died of pneumonia on March 6, 2009, at age 94.

A native of Steamboat Springs, CO, Brobeck earned a bachelor's degree from Wheaton (IL) College, where he met his future wife, Dorothy Kellogg. After graduating from Wheaton College in 1936, he spent three years at the Institute of Neurology of Northwestern University in Chicago, where he received the PhD degree in 1939. He was then able to continue his education at the School of Medicine at Yale University and was awarded an MD degree in March 1943. On the first day of April, he began an association with John Fulton's Laboratory of Physiology at Yale that continued until 1952, when Brobeck moved to the Philadelphia area as professor and chairman of the Department of Physiology of the School of Medicine of the University of Pennsylvania. He was also chairman of the Graduate Group Committee in Physiology. At that time, the University included another department of physiology in the Graduate School of Medicine. Julius Comroe had made it one of the strongest departments in the country. In 1957, however, Comroe resigned from his positions at Pennsylvania to take up his new responsibilities at the University of California in San Francisco. Two years later, Robert Forster became chairman of this department. Brobeck meanwhile held office in the School of Medicine until 1970. He then resigned so that the two departments could be brought together under Forster's direction. From 1970 until his official retirement in 1982, Brobeck held the title of Herbert C. Rorer Professor in the Medical Sciences. Then, for 10



John R. Brobeck

years, he was the assistant to the vice president for health affairs. He was also Penn's judicial administrator and served on several university committees.

Elected to membership in APS in 1943, Brobeck's first assignment was as chairman of the Education Committee in 1960. From 1963 to 1972 he served as chairman of the Editorial Board of *Physiological Reviews*. He was elected to Council in 1967 and became president-elect in 1970. In 1980 he received the Ray G. Daggs Award. Brobeck was editor or coeditor of several books, including one on the history of the American Physiological Society.

In the chapter written in the APS Centennial History about Brobeck, he indicated that his research interests focused on the study of the control of energy exchange and energy balance. Having learned from his own observations and the work of other laboratories that stimulation or lesions of the hypothalamus may alter body temperature regulation, food intake, body weight, or

motor output, Brobeck proposed integration of these several variables into patterns of energy exchange. The basis for the integration was hypothesized to be thermal signals. According to Brobeck, in adult animals this integration usually leads to a balance between intake and expenditure and consequently to a stable body weight.

Wheaton College, his alma mater, conferred three honors on Brobeck: the Distinguished Service Award of the Alumni Association (1953), a Centennial Award (1959), and the degree doctor of laws (1960). In 1959 he received a Centennial Merit Award from Northwestern University. He was a member of the American Society for Clinical Investigation, the Halsted Society, the American Academy of Arts and Science (1969), and the National Academy of Sciences (1975). In 1962–63 he and most of his family, with a grant from the China Medical Board of New York, were able to spend nine months at the National Defense Medical Center in Taipei, Taiwan. They also visited the major medical centers in Korea, Hong Kong, the Philippines, Bangkok, and New Delhi, India.

Colleagues remember him for his bow ties and his commutes by bicycle from Swarthmore to Penn. A talented trombonist, Brobeck played in a brass quintet in college and later played duets with his wife, a pianist and organist. She died in November 2008. In addition to his daughter, Brobeck is survived by his daughters Elizabeth Thompson and Priscilla, his sons Stephen and John T., a sister; and five grandchildren.

A memorial service for Brobeck was held at Aldan Union Church, 7 E. Providence Rd., Aldan, PA 19018. Memorial donations may be made to the church organ fund. ❖

## Recently Deceased Members

### Thomas E. Andreoli

Little Rock, AR

### John R. Brobeck

Media, PA

### Marco E. Cabrera

Cleveland, OH

### David K. Detweiler

Gladwyne, PA

### Carlos E. Eyzaguirre

Salt Lake City, UT

### Gerard L. Gebber

East Lansing, MI

### Edwin Hendler

Cherry Hill, NJ

### Daniel C. Koblick

Chicago, IL

### Joseph V. Levy

San Francisco, CA

### Howard E. Morgan

Lewisburg, PA

### Ashton B. Morrison

Norfolk, VA

### Ichiji Tasaki

Bethesda, MD

### Harold S. Weiss

Columbus, OH

### Earl H. Wood

Rochester, MN



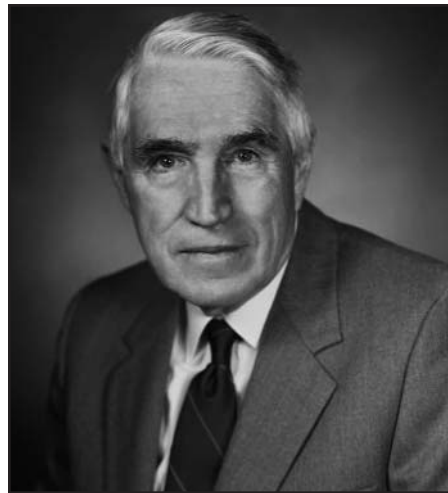
**Earl H. Wood**  
53rd APS President  
1912–2009

Earl H. Wood, MD, PhD, who served APS as the Society's 53rd President from 1980-1981 passed away on March 18, 2009, at age 97.

Wood was born January 1, 1912, in a house on Walnut Street in Mankato, MN. His family eventually moved to a 20-acre farm overlooking the Minnesota River near Mankato. His father, William C., who worked in real estate, also acquired a large Victorian lakeside hotel overlooking Lake Washington where the family spent summers. On December 20, 1936, he married Ada Peterson of Big Lake, MN. A graduate of Macalester College, she helped to put him through medical school. In later years the couple bought a farm along the Zumbro River, where they hiked and nurtured walnut trees.

Wood attended Macalester College in St. Paul, MN, graduating in 1934. He then entered the School of Medicine of the University of Minnesota but gave up his medical studies temporarily for training in Maurice Visscher's department, where he received the MS degree in 1939. In 1941 he was awarded both the MD and the PhD degrees, the latter for research on water and electrolytes of cardiac muscle, especially under the influence of digitalis. He spent 1940-41 at the University of Pennsylvania as an NRC fellow in the Department of Pharmacology, and for the following year he was instructor in pharmacology at Harvard. In 1942 Wood returned to Minnesota, to the Aeromedical Unit of the Mayo Foundation Laboratories, where he progressed steadily in rank in the Mayo Graduate School and then in the Mayo Medical School to become professor of physiology and of medicine in 1951. He officially retired from these positions in 1982.

Wood became an APS member in 1943. He was active at first mainly in the Circulation Group and served as a member of its Steering Committee (1962-1964; chairman, 1963-1964). He received its Carl J. Wiggers Award in 1968. He was elected to APS Council in 1977 and became president elect in 1979. From 1978-1980 he was chairman of the Centennial Celebration Committee, and from 1982 to 1985 he served on the Finance Committee. Responsibilities with FASEB ran very much in parallel with those in the Society; in addition to his year as president of FASEB (1981-1982), he was a member of the Long-Range Planning and Development Fund Committees (1982-1985) and the Public



**Earl H. Wood**

Affairs Committee (1984-1985).

With his colleagues, Wood played a pivotal role in the design of investigations to clarify the problems of sudden pilot blackout related to increased gravitational force caused by dive-bombing and high-speed combat maneuvers. A human centrifuge was installed in the Mayo Medical Sciences building. Wood often served as a research subject, testing human exposure to G-forces. The anti-G suit, developed with the cooperation of a female undergarment manufacturer, became standard equipment in the Air Force.

Following World War II, Wood organized a laboratory at Mayo for the study of human circulation resulting in the development of an ear oximeter, which could provide immediate readings of oxygen saturation levels in the blood. The instrumentation was sometimes tested on three of his young children. His lab also perfected cardiac catheterization as a diagnostic tool which led to real-time monitoring of circulation during cardiac surgery. By the 1960s Wood's research and teaching attracted graduate students from Mayo as well as from institutions around the world.

His later interests centered on a high-speed, computer-based X-ray scanning system that would provide three-dimensional views of the moving heart, lungs, and circulation. It was an idea he hatched while watching football instant replays on television. Although the imaging machine, called the "dynamic spatial reconstructor," he developed while head of the Biodynamics Research Unit at Mayo was superseded by other techniques, his early dream of non-invasive, accurate

diagnosis has become common practice.

Wood has published over 700 articles and numerous book chapters. His prolific academic career resulted in countless honors, awards, and distinctions from many professional associations. Wood's awards include the Presidential Certificate of Merit from Harry Truman in 1947 for his development of the anti-G suit. He received from Macalester College an honorary degree of DSc in 1950 and a Distinguished Citizen Award in 1974. In 1963 he was given awards by the Aerospace Medicine Association and by *Modern Medicine*. The American College of Chest Physicians, the Mayo Foundation, and the Biomedical Engineering Society have all honored him with lectureships. He is an honorary member of the Royal Netherlands Academy of Arts and Sciences and of the American College of Cardiology. In 1982, he received an honorary degree, doctor of medicine, from the University of Bern, Switzerland, and in the following year he was given both the Humboldt Prize for Senior US Scientists by the government of West Germany and the John Phillips Memorial Award of the American College of Physicians. In 1995 Wood received the Ray G. Dagg's Award for his long-term service to physiology and, in particular, to APS. His most recent distinction particularly pleased his children: in 2002, former Mayo fellow Peter Osypka, who founded a successful medical instrumentation company based on his work in Wood's lab, dedicated "Earl H. Wood Strasse" in Rheinfelden, Germany.

Wood is survived by four children, Phoebe Wood Busch (Nancy Miller) of Denver, Mark G. (Molly) of Fresno, CA., Guy H. (Julie Croy) of Corvallis, OR, and E. Andrew (Krista Coleman) of Rochester; four grandchildren and a great-granddaughter (in utero); a sister-in-law, Helen Nichols Wood of Montrose, CO.; and numerous nieces and nephews. He was preceded in death by his wife in 2000, and his five siblings.

His legacy will live on in his numerous fundamental contributions to the fields of Physiology, operational Aerospace Medicine, and most importantly through the countless trainees and students that have had the privilege to work with him and get to know him as a world class research, teacher, and wonderful family man and human being. ❖

## Howard E. Morgan

58th APS President  
1927–2009

Howard E. Morgan, MD, who served APS as the Society's 58th President from 1985-1986 passed away on March 2, 2009, at age 81.

Morgan was born in Bloomington, IL, and began his college education there with one year at the Illinois Wesleyan University (1944-45). He then moved directly into medical school at Johns Hopkins University, where he received his MD degree in 1949. His original intention was to become an obstetrician-gynecologist, a career he began on the house staff of the hospital of Vanderbilt University (1949-53). The following year (1953-54) he was instructor in these disciplines. He then became a fellow for a year in medical research in the unit of the Howard Hughes Medical Institute established in the Department of Physiology at Vanderbilt (1954-55). But the following year he was back in obstetrics and gynecology as assistant chief of that service on active duty in the US Army Station Hospital at Fort Campbell, KY. He then returned to Vanderbilt, and for the next 10 years (1957-67) he was an investigator in the Hughes Institute, with faculty rank that progressed from assistant professor (1959-62), to associate professor (1962-66), and professor (1966-67). Morgan then became the first professor and chairman of the Department of Physiology in the College of Medicine of the Pennsylvania State University in Hershey, PA. From 1973 he was also Associate Dean for Research, and in 1974 was honored by designation as the Evan Pugh Professor of Physiology. In 1982 he was further honored by appointment as a scholar of the Howard Hughes Medical Institute.

Morgan was elected to APS membership in 1965. He was elected to APS Council in 1983 and became president elect the following year. During the three years he was in presidential offices, Morgan became closely involved in planning for the Centennial Celebration. He was instrumental in making the final agreement for a project many years in the making—the joint publication with IUPS of *News in Physiological Sciences*. He also took an active part in the lengthy consideration of how to ensure a broader representation of the sections by modifying governance of the Society. Finally it was in the



Howard E. Morgan

year when Morgan was president elect that Orr E. Reynolds retired from the position of executive secretary-treasurer of APS and Martin Frank was appointed to that office. Morgan became, therefore, the first president to hold office in collaboration with Frank, as Berne had been the first to serve with Reynolds in 1973. Morgan brought to the office extensive experience, not only with the Society's journals but also in the deliberations of the Porter Physiology Development Committee (1968-1980).

Another important feature of Morgan's career was his association with scientific journals. Beginning with the Editorial Board of the *American Journal of Physiology* (1967-73), he became editor of *Physiological Reviews* (1973-78), associate editor of the *American Journal of Physiology: Endocrinology and Metabolism* (1979-81), and editor of the *American Journal of Physiology: Cell Physiology* (1981-84). For much of this time he served on the Publications Committee (1979-85; chairman, 1981-85). Other journals for which he provided editorial assistance include *Circulation Research* (1971-76 and 1982-), the *Journal of Biological Chemistry* (1973-78 and 1980-85), the *Journal of Cardiovascular Pharmacology* (1977-82), and the *Journal of Molecular and Cellular Cardiology* (1974-; associate editor, 1979-83). Of this listing, his influence was perhaps the greatest on *Physiological Reviews*. During his tenure as editor it grew significantly in international reputation and influence.

Morgan was internationally regarded as one of the greatest experimental cardiologists of the 20th century. Morgan's research focused on the physiological regulation of intermediary metabolism. For many of his studies he used the isolated and perfused rat heart. Later in his research career, Morgan's interest shifted to identification of factors that control growth of the heart and that can lead to cardiac hypertrophy. His strong commitment to excellence in heart research, his clear vision for blending the basic sciences with clinical cardiology, and his deep devotion to helping young cardiovascular scientists reach their potential demonstrated his outstanding ability in the creative organization of medical research.

He wrote more than 250 scientific publications. His work was named three times as a "Citation Classic," a paper with more than 500 citations in published research for each article.

Morgan was also president of the American Heart Association, 1987-88 and president of the International Society for Heart Research, 1983-86. He was founding president of the International Academy of Cardiovascular Sciences, 1996-2002. He served as coordinator of the US/USSR exchange program dealing with cardiovascular biology and medicine for 20 years. He was a member of Institute of Medicine of the National Academy of Sciences. He was also the recipient of the Abigail A. Geisinger Award. Morgan was the Evan Pugh Professor of Physiology, emeritus, of Pennsylvania State University and senior vice president for research, emeritus, Geisinger Clinic and was a consultant to the Reynolds Foundation, Whitaker Foundation and the Bugher Foundation.

He is survived by his wife, Donna of 21 years. In addition to his wife, he is survived by one daughter and son-in-law, Patricia L. and Nelson Wehler of East Berlin, PA and two grandsons, Jonathan and Geoffrey Morgan of Ann Arbor, MI. Howard was preceded in death by two sons, Stephen L. and Howard L. Morgan. ❖

## Letters to Harvey Sparks

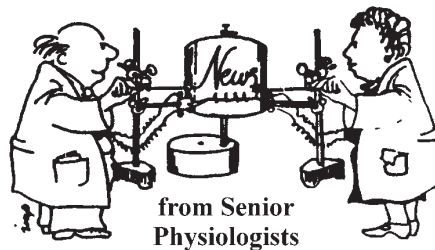
**Jaime R. Villablanca** writes: "Thank you for contacting me on behalf of the Senior Physiologist Committee.

"Given the tone of your letter, it appears that you never received my letter in which I reviewed some of the same issues in your recent letter. I will quote here a key sentence of that letter: 'I am convinced now that the thrill and awe of discovery, i.e., the essence of the scientific endeavor, is one of the most satisfying experiences that we humans can have. I would go for it over and over again.'

"I continue to be excited by the motivation above which, I believe, is even stronger when 'discovery' involves the workings of the brain. For example, I am now in the process of submitting for publication an updating review of my work on the functional role of the caudate nucleus. Thereafter, I will start working on a solicited book chapter on REM sleep based on our work in animals with a permanent brain stem transection. This certainly means that I have to keep updating my knowledge in the areas which have been the subject of my research. It seems that I am fulfilling this purpose since I still get invitations to participate in advanced teaching (e.g., in May I traveled to Madrid, Spain, to participate in an intensive postgraduate course on sleeping and waking).

"I have been lucky in that my Department has allowed me to keep my old office. Perhaps this is due, in part, to my continued involvement in University activities. For example, I am a member of the Council of Advisors for UCLA junior faculty. I truly enjoy these activities.

"On a more personal note I feel proud to be contributing new academicians to the university. Two of my postdoctoral students now hold full professorships here at UCLA. Moreover, our daughter,



Amparo, is a professor in the School of Medicine at the UC Davis Campus, our son, Pablo, is also a full Professor (as well as the Chief of the Neuroradiology Division), here at UCLA, and our son, Francis, is a Professor of Biology at CalPoly San Luis Obispo.

"Also on a personal note, I am finally able to make time for an activity I always wanted to pursue but never could, i.e., learning music. I am taking piano lessons twice a month and enjoying the playing and learning immensely. Moreover, the 'alien' field of Cosmology fascinates me and I attempt to follow the main discoveries in that area, too.

"All of the above, I must acknowledge, would not have been possible without the support and understanding of my beloved wife Guillermina.

"Thanks, once again, for the opportunity to write this note."

**Lester VanMiddlesworth** writes: "For the past 70 years I have been impressed by the role of the halogen, iodine, in the mammalian organism and by the tools that have been developed to study thyroid and goiter technology. From the presence of goiters and cretins of the late 1920's and through periods of radioactive fallout during the past 50 years, the adventures of iodine metabolism have been associated with biological ingenuity and discovery of improved relationships. We have developed methods to improve adaptation to our envi-

ronment. These processes have involved continuous experimental efforts to test, to understand and to improve our adaptation and our biological roles among the living and the nonliving participants.

"The whole process has been observed and tested with great satisfaction and with realization that each observation is proof that we have only begun our discovery, and vigilance must be continuous. The processes will surely continue indefinitely! Each solution introduces new problems of greater interest."

**Franz von Bruchhausen** writes: "I was born at Munster (Westfalia) on September 2, 1929 as a son of a Pharmaceutical Professor. Since 1936, I visited the elementary school of Wuerzburg and the old-languished gymnasium in Brunswick. Since 1847 I studied medicine in Gottingen, Madrid (Spain) and Wurzburg and Chemistry at Braunschweig, Editorship of handbook volumes (insulin (Platelest and their factors). Since 1975, author of antimicrobial Chemotherapies in a widespread text promotion in 1955 (MD) on venoms of beerosts and snakes. Since 1960 I worked in the Pharmacological Institute of Berlin-Dahlem on endocrinological themese (lipoxinases, prostaglandin synthetase, anthocyanidines and platelet activating factor) book for students (Pharmacotherapy/Clinical Pharmacology by Fulgraff/Palm edit). Editorship of Hagers Handbook of Practical Pharmacists 1993-1999. Since 1994, Pensioneering. Thereafter, through the end of 2008 chairman of Ethical Commission of country Brandenburg and working on Questions of age and aging (Co-authorship of textbook Medicamental Therapy of Older Patients) and on bacteriophages."



## Moving?

If you have moved or changed your phone, fax or Email address, please notify the APS Membership Office at 301-634-7171 or Fax to 301-634-7241. Your

membership information can also be changed by visiting the Members Only portion of the APS Website at <http://www.the-aps.org>. ❖

The 2008 Australian Yellowtails are out, still at less than \$6 a bottle in most markets. Recall Yellowtail is available almost everywhere, and they have cornered a niche market on juicy, appealing, if undistinguished wines at what remain very good prices. So the lineup is worth a review even if not all of their bottlings appeal (to me at least).

2008 Yellowtail Riesling. No appellation, just "Australia" (NAJA) \$6. This wine does not resemble real Riesling at all except for some floral sweetness in the nose and also on the palate. But if you just give up and pretend it is a Viognier, it is actually not that bad. The nose is floral with stone fruit (peach/apricot) typical of Viognier, not Riesling. So too the palate – it is clean and viscous, with apricot, peach, a hint of pear, and citrus. The palate has clear residual sugar, but not too much. The acidity is a bit weak given the sweetness, but it is not too dull. Overall, if you want a cheap Viognier and don't care that it is labeled Riesling, you could really like this.

2008 Yellowtail Pinot Grigio. NAJA \$6. This wine has green apple and pear aromas, and the palate follows in kind. The acidity is quite good, and the wine is clean. I have yet to become infatuated with this grape (Pinot Gris in France), and most samples I have come across seem to taste like generic, lemony-tart dry white wine. So too this one, with apple, pear and citrus. But while it comes across as pretty simple, it is actually an OK party-food wine.



Reds now follow in descending order of appeal:

2008 Yellowtail Shiraz/Cabernet. NAJA \$6. This is the best of the five reds. Deep color, quite rich and deep with ripe, dark berry fruit flavors, medium tannin, good acid and a little structure. A touch leafy/herbaceous and light oak treatment. Good enough for a dinner with friends, but no more.

2008 Yellowtail Shiraz/Grenache. NAJA \$6. Stemmy, plummy nose and



Peter Wagner

palate, a bit simple; lighter style than the above, fairly good length, light tannin, OK acid. Second best of the reds. Also good enough for a dinner with friends.

2008 Yellowtail Shiraz. NAJA \$6. Stemmy, with dark cherry and slight black pepper. Pleasant palate of cherry/plums, slight black pepper, vanilla but quite simple, light. A good value party wine, not good enough for dinner, even with enemies.

2008 Yellowtail Cabernet. NAJA \$6. Very generic berryish nose and flavors – meaning you can't tell what it tastes like. Sweet ripe fruit, not typical cabernet at all. OK as a party wine.

2008 Yellowtail Merlot. NAJA \$6. Another berryish wine, but tastes like cheap jug plonk to me.

Other wines of interest that have recently been released:

2006 RH Philips "Toasted Head" Viognier, California, \$10. This is a nice, middle of the road, typical Viognier. It has the stereotypical nose and palate of stone fruit (apricot and peach) with a clean, soft but not sweet palate and finish. It is a medium bodied wine, and quite easy to drink.

2007 Qupe Syrah, California Central Coast \$13. This wine has a floral, herbal nose with plums and a clear aroma of dill (aka American Oak) and some stem-

miness. The palate is medium bodied – this is no Mae West in a bottle, unlike many Australian versions. It is not big or complex, tannins are soft, and the stemmy herbal elements are obvious along with plummy fruit. Overall a pleasant wine, but not one to rave over. Especially if you, like me, are a fan of big Australian Shiraz (aka Syrah). For this price I can get several yummy Oz Shiraz's.

2006 Hearthstone Grenache, Paso Robles CA, \$18. Grenache is not yet common in the USA as a stand alone grape for wine, but good Grenache is delightful. It is a Rhone varietal just like Syrah/Shiraz, with which it is often blended. This pure Grenache is a bad boy at 15.7% alcohol. Yet it is light in body, very flavorful with red raspberry fruit everywhere. There is spice, slight black pepper, and the tannins are medium and well in check. The ripeness of the fruit and alcohol give a seductive sense of sweetness, but the dry finish and high alcohol tells me there is little if any residual sugar. This one is a bit more than I would pay for an everyday wine, but it is really quite appealing.

2006 Stonehouse Zinfandel, California "North Coast" \$9. This appealing and well-priced wine has a forward blueberry and lavender nose and sweet ripe red and black cherry fruit on the palate. It is not too tannic nor too tart – quite well balanced. Is it a great wine? No. Is it better than most \$9 wines? Yes. And with "only" 14.5% alcohol, that aspect is under control. This wine would make a great backyard party wine.

2004 Wattle Creek Shiraz, Alexander Valley, \$20. This is one very, very, good wine. And not outrageously priced. It will be hard to find, but keep your eye on future releases through your wine store/internet. Deep purple, with blackberry, vanilla and dill (American oak). Slight anise too. Medium soft tannins, forward, lush, silky, with good acidity. Rich, extracted, complex with good length. Very good mouthfeel (viscous, smooth, rich) and balance. ❖

July 5-9

**Summer School 2009: Vascular and Cardiac Biology for Young Scientists, Sophia Antipolis, France.** *Information:* Internet: <http://www.escardio.org/education/courses/basic-science/Pages/programme.aspx>.

July 7-10

**Physiology 2009, The Main Meeting of the Physiological Society, Dublin, Ireland.** *Information:* Tel.: +44 (0) 207269 5710; Email: [meetings@physoc.org](mailto:meetings@physoc.org); Internet: <http://www.physoc.org/meetings>.

July 11-16

**XXII Congress of the International Society on Thrombosis and Haemostasis (ISTH 2009), Boston, MA.** *Information:* MCI Suisse SA, Rue de Lyon 75, 1211 Geneva 13 - Switzerland. Tel.: +41 22 33 99 587; Fax: +41 22 33 99 621; Email: [isth2009@mci-group.com](mailto:isth2009@mci-group.com); Internet: <http://www.isth2009.com/welcome.html>.

July 12

**The Paraventricular Nucleus in Health and Disease, Bristol, UK.** *Information:* Tel.: +44 (0) 117 331 3039; Email: [d.murphy@bristol.ac.uk](mailto:d.murphy@bristol.ac.uk) Internet: <http://www.bris.ac.uk/clinicalsciencesouth/hwline/symposium/>.

August 3-7

**11th International Congress on Amino Acids, Peptides and Proteins, Vienna.** *Information:* Internet: <http://www.meduniwien.ac.at/ICAAP09/index.html>.

August 5-6

**2009 National Human Cadaver Protection Program, Gary, IN.** *Information:* Internet: <http://medicine.iu.edu/body.cfm?id=4951&oTopID=225>.

August 16-19

**The 17th Congress of the International Federation of Associations of Anatomists, Cape Town, South Africa.** *Information:* Internet: <http://www.paragon-conventions.com/ifaa2009/>.

August 16-21

**The Physiological Basis for Obesity Therapeutics, Snowmass Village, CO.** *Information:* Internet: <https://secure.faseb.org/faseb/meetings/Summrconf/Programs/11710.pdf>.

September 4-8

**8th World Congress on Neurohypophysial Hormones (WCNH2009), Kitakyushu, Japan.** *Information:* Email: [wchn2009@mbox.med.uoeh-u.ac.jp](mailto:wchn2009@mbox.med.uoeh-u.ac.jp); Internet: <http://www.wcnh2009.jp>.

September 6-8

**Epithelia & Membrane Transport Themed Meeting, Newcastle, United Kingdom.** *Information:* Tel.: +44 (0) 207269 5710; Email: [meetings@physoc.org](mailto:meetings@physoc.org); Internet: <http://www.physoc.org/meetings>.

September 9-13

**Joint International Meeting of The Physiological Society and the Society of General Physiologists - Basic**

**Biology and Disease of Muscle, Woods Hole, MA.** *Information:* Tel.: +44 (0) 207269 5710; Email: [meetings@physoc.org](mailto:meetings@physoc.org); Internet: <http://www.physoc.org/meetings>.

September 15-18

**The 9th Annual Meeting of the Safety Pharmacology Society, Strasbourg, France.** *Information:* Internet: <http://www.safetypharmacology.org/am2009/>.

September 18-21

**Workshop on Multi-Scale Muscle Mechanics, Woods Hole, MA.** *Information:* Internet: <http://muscle.ucsd.edu/NSMRC/workshops/main.shtml>.

October 6-9

**Placenta: The Key to Pregnancy Success (IFPA Meeting 2009), Adelaide, Australia.** *Information:* Nina Cosgrove, IFPA 2009 Conference Secretariat, Elsevier, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, UK. Tel.: +44 (0) 1865 843297; Fax: +44 (0) 1865 843958; Email: [n.cosgrove@elsevier.com](mailto:n.cosgrove@elsevier.com); Internet: <http://www.ifpaconference.org/2009>.

October 15-16

**Synaptic Inhibition in Health and Disease, Chicago, IL.** *Information:* <http://www.abcam.com/go.cfm?p=3815>.

October 17-19

**The 2nd International congress on Image and Signal Processing (CISP 2009) and the 2nd International Conference on BioMedical Engineering and Informatic (BMEI 2009), Tianjin, China.** *Information:* Email: [cisp2009@tjut.edu.cn](mailto:cisp2009@tjut.edu.cn); Internet: <http://www.tjut.edu.cn/cisp-bmei2009>.

October 27-30

**2nd International Fascia Research Congress, Amsterdam, The Netherlands.** *Information:* Faculty of Human Movement Sciences, Van der Boechorststraat 9, NL - 1081 BT Amsterdam. Tel.: +31 20 59 82000; Fax: +31 20 59 88529; Internet: <http://www.fasciacongress.org/2009>.

November 2-5

**Microbial Biotechnology for Development, Marrakech, Morocco.** *Information:* Internet: <http://www.ucam.ac.ma/microbiona/>.

November 16-19

**Chromatin: Structure & Function Conference 2009, Guanacaste, Costa Rica.** *Information:* Internet: <http://www.abcam.com/go.cfm?p=4406>.

December 5-9

**49th Annual Meeting of the American Society for Cell Biology, San Diego, CA.** *Information:* Internet: <http://www.ascb.org/meetings/>.

December 14-16

**Cellular & Integrative Neuroscience Themed Meeting, Cardiff, United Kingdom.** *Information:* Tel.: +44 (0) 207269 5710; Email: [meetings@physoc.org](mailto:meetings@physoc.org); Internet: <http://www.physoc.org/meetings>.

# Meetings & Conferences

*of the American Physiological Society*

## 2009 APS Conference:

**ET-11: APS International Conference on Endothelin**

September 9-12, 2009

Montréal, Canada

## Experimental Biology 2010

April 24-28, 2010

Anaheim, California

## 2010 APS Intersociety Meeting:

**Global Change and Global Science:  
Comparative Physiology in a Changing World**

August 4-7, 2010

Westminster, Colorado

## 2010 APS Conference:

**Inflammation, Immunity and Cardiovascular Disease**

Date and Location to be Determined



The American Physiological Society, Meetings Department  
Phone: 301.634.7967, Fax: 301.634.7264, E-mail: [meetings@the-aps.org](mailto:meetings@the-aps.org)



# MEMBERSHIP APPLICATION FORM

## The American Physiological Society

1. Check membership category you are applying for:  Regular  Affiliate  Student
2. Name of Applicant: \_\_\_\_\_  
Last Name or Family Name / First Name / Middle Name
3. Date of Birth \_\_\_\_\_ Optional: Male  Female   
Month / Day / Year
4. Institution Name \_\_\_\_\_ Department \_\_\_\_\_  
(Please do not abbreviate Institution Name)
5. Institution Street Address \_\_\_\_\_
6. City/State/Zip/Country \_\_\_\_\_
7. Home Address (**Students only**) \_\_\_\_\_
8. Work Phone \_\_\_\_\_ Home Phone \_\_\_\_\_
9. Fax \_\_\_\_\_ E-mail \_\_\_\_\_

10. **EDUCATIONAL STATUS:** ► **IMPORTANT for STUDENTS: \*\*If you are enrolled as a student for an advanced degree (Ph.D., M.D., D.V.M.) please include the month and year you expect to receive your degree.**

Dates **	Degree	Institution	Major Field	Advisor
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11. **WHAT IS YOUR SECTION AFFILIATION?** Please identify your primary sectional affiliation (1) and check up to two additional sections with which you would like to affiliate. **There can be only one "Primary" affiliation.**

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> Cardiovascular                        | <input type="checkbox"/> Endocrinology & Metabolism            | <input type="checkbox"/> Renal Physiology                |
| <input type="checkbox"/> Cell & Molecular Physiology           | <input type="checkbox"/> Environmental & Exercise Physiology   | <input type="checkbox"/> Respiration Physiology          |
| <input type="checkbox"/> Central Nervous System                | <input type="checkbox"/> Gastrointestinal & Liver Physiology   | <input type="checkbox"/> Teaching of Physiology          |
| <input type="checkbox"/> Comparative & Evolutionary Physiology | <input type="checkbox"/> Neural Control & Autonomic Regulation | <input type="checkbox"/> Water & Electrolyte Homeostasis |

12. **DO YOU WORK IN INDUSTRY?**  YES  NO

13. **SPONSORS** (Sponsors must be Regular APS Members. If you are unable to find sponsors, check the box below, and we will locate them for you.)

**CHECK THIS BOX IF APPLICABLE:**  Please locate sponsors on my behalf.

#1 Sponsor Name \_\_\_\_\_

Mailing Address \_\_\_\_\_

\_\_\_\_\_

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Phone \_\_\_\_\_

Fax \_\_\_\_\_

E-mail \_\_\_\_\_

Sponsor Signature\* \_\_\_\_\_

#2 Sponsor Name \_\_\_\_\_

Mailing Address \_\_\_\_\_

\_\_\_\_\_

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Phone \_\_\_\_\_

Fax \_\_\_\_\_

E-mail \_\_\_\_\_

Sponsor Signature\* \_\_\_\_\_

*\*signature indicates that sponsor attests applicant is qualified for membership.*

► **Please turn over for more questions...and mailing instructions.**

**Membership Application** (Continued...) **Applicant Last Name** (please print) \_\_\_\_\_

**14. OCCUPATIONAL HISTORY** [Check if student  ]

**Current Position:**

Dates	Title	Institution	Department	Supervisor
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**Prior Positions:**

Dates	Title	Institution	Department	Supervisor
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**15. LIST YOUR MOST SIGNIFICANT PUBLICATIONS, WITH EMPHASIS ON THE PAST 5 YEARS** (Publications should consist of manuscripts in peer-reviewed journals. List them in the same style as sample below.)

**Sample: MacLeod RJ and Hamilton JR.** Volume Regulation initiated by Na<sup>+</sup>-nutrient contransport in isolated mammalian villus enterocytes. Am J Physiol Gastrointest Liver Physiol 280: G26-G33, 1991.

**16. DOCTORAL DISSERTATION TITLE** (if applicable):

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**17. POSTDOCTORAL RESEARCH TOPIC** (if applicable):

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**18. WHICH FACTOR INFLUENCED YOU TO FILL OUT OUR MEMBERSHIP APPLICATION?**

Mailer    Meeting (Which meeting? \_\_\_\_\_)    Colleague    Other \_\_\_\_\_

Mail your application to: Membership Services Department, The American Physiological Society  
9650 Rockville Pike, Bethesda, Maryland 20814-3991 (U.S.A.)  
(or fax to 301-634-7264) (or submit online at: [www.the-aps.org/membership/application.htm](http://www.the-aps.org/membership/application.htm))

Send no money now—you will receive a dues statement upon approval of membership.  
Approval Deadlines: Membership applications are considered for approval on a monthly basis.  
Questions? Call: 301-634-7171, Fax: 301-634-7264, E-mail: [members@the-aps.org](mailto:members@the-aps.org), Web: [www.the-aps.org](http://www.the-aps.org)