Experimental Biology 2017:
The 2017 EB Meeting was held in Chicago from April 22-April 26th. Participating societies were: APS, AAA (anatomy), ASBMB (biochemistry), ASIP (pathology), ASN (nutrition), and ASPET (pharmacology). The APS hosted five guest societies: The Microcirculatory Society (MCS), the Biomedical Engineering Society (BMES), American Federation for Medical Research (AFMR) and The Physiology Society (Physoc). Overall paid scientific registrants across all societies was 12,527, with 1,504 Ancillary Registrants. APS had 395 sessions in total: 249 poster sessions, 62 symposia, 51 featured topics, 19 lectures, 2 workshops, 1 refresher course, 2 awards sessions, and 9 special sessions.

The meeting opened with several unique sessions on Saturday, April 22th including the traditional Refresher Course this year on Curricular Innovation in Sex and Gender Based Medical Physiology Education. APS sponsored two unopposed Techniques and Technology in Physiology Workshops on Saturday, April 22nd entitled: Choosing the Right Diet for Your Animal Model and Using Ultrasound to Teach Cardiovascular Physiology and Anatomy (Cosponsored by American Association of Anatomists).

Saturday featured Physiology in Perspectives—The Walter B. Cannon Memorial Award Lecture presented by Dr. Michael Welsh from the Howard Hughes Medical Institute at the University of Iowa. The lecture was followed by an EB-wide Opening Reception free to all registrants.

APS also held the Henry Pickering Bowditch Memorial Award Lecture featuring Dr. Brant Isakson of the University of Virginia and 12 section-sponsored Distinguished Lectures. APS also sponsored four Integrative Symposia Systems:
- Hypoglycemia: Neural Pathways of the Glucose Counter-Regulatory Response, Hypoglycemia Unawareness and its Treatment
- Engineering for Health: Integrating Engineering and Physiology to Combat Disease
- Exercise Intolerance in Metabolic, Pulmonary and Cardiovascular Diseases: Did We Forget the Brain?
- Impact of Exosomes on Muscle Atrophy, Hypertrophy and Myogenesis

The APS President’s Symposium Series was organized by Dr. Jane Reckelhoff around the theme: Research Advances in Sex/Gender and Developmental Programming of Chronic Diseases and included three symposia and one lecture:
- Women and Health Research
- Sex Differences in Physiology and Pathophysiology
- Developmental Programming of Diseases
- Nobel Prize in Physiology or Medicine Lecture “The Road to Stockholm: A Nobel Mission.” Was presented by Dr. Louis Ignarro, UCLA School of Medicine

The Nobel lecture was followed by a ticketed closing banquet open to physiologist registrants.

A total of 8,389 abstracts, 7,525 regular and 864 late-breaking, were programmed by the six EB17 sponsoring societies. Total abstracts submitted for EB 2017 increased by 8% over EB 2016 which received a total of 7,761 abstracts.

There were 8,389 abstracts submitted to EB17 with APS members submitting 2,478. Table 2 provides the breakdown of total attendance at EB 2017 and 2016. EB 2017 represented 1,291 greater registrants than EB 2016. The total number of Undergraduate/high school members, teachers and students was 2,286, an increase of 367. Exhibitor registration decreased by 148, a continual trend. There has also been a continual decrease in number of exhibitor booths and companies over the last 4 years.
EXPERIMENTAL BIOLOGY 2018

The JPC met at EB 2017 on Saturday, April 22nd to begin organizing EB 2018 to be held Saturday, April 21st thru Wednesday April 25th in San Diego.

The JPC Summer meeting was held on June 19-20, 2017 in Crystal City, VA to schedule rooms by day and time for the platform sessions, and to minimize scientific overlap.

At EB17 Council finalized several decisions that affected EB18 programming. APS Council voted to remove Wednesday from the scientific sessions starting in EB19. Therefore in anticipation of EB19 scientific sessions being on Sunday through Tuesday we modified the schedule for EB18 as follows (with Council Approval)

• Career session by the Women in Physiology, Careers and Trainee Committees will occur from 7-8 in the morning. Dr. Maytas is developing this schedule which is expected to occur in multiple rooms across multiple days.
• All oral sessions will be 90 minutes in length and will be from 8:30-10, 1:30-3:00 and 3:30-5 on Sunday through Wednesday. The 3:30-5 session on Wednesday will be the Nobel lecture.
• Poster sessions will run from 10-12 each day. There will be no oral sessions occurring concurrently with the poster.
• The lunch break will hopefully allow members to visit the exhibitors.
• To have a cross society open ceremony, the Tang Lecture will be Saturday from 6-7 followed by a meeting wide reception.
• The Cannon Lecture will be moved until Sunday from 5:30-6:00 PM.
• The Bowditch Lecture will be Monday from 5:30-6:00 PM.

We had 24 Section and Interest Group JPC Reps attend the meeting. We developed 20 tracks for the EB 2018 meeting and then programmed the scientific sessions. JPC representatives were informed that speakers and chairs were not allowed to speak in or chair multiple sessions. JPC reps will contact session and FT chairs about correcting this issue. The online submission program for symposia and featured topics has been developed but will have some changes implemented to improve the ease of use. For EB2019 all symposia and featured topics will be submitted online. This will allow for sections to easily review all submissions to determine possible scientific overlap. The program will allow for tracking speakers speaking multiple years in a row. Programming of posters from received abstracts will be performed electronically in December or January. Abstract submission dates have not been determined. Several APS Sections and Interest Group added “Nutrition” to abstract categories to attract other members of EB to APS sections.

Translational Physiology Interest Group will again be selecting translational abstracts for an unfunded session where investigators will provide 5-minute presentations on translational physiology. The meeting will also feature sessions organized by the APS Publications, Careers in Physiology, Public Affairs, Women in Physiology, Trainee Advisory, Physiologists in Industry and Education Committees.

At the Fall 2015 Council Meeting Council approved JPC’s goal to decrease the number of abstract categories to foster scientific interactions across sections and interest groups. Due to all of the other issues with shortening the meeting by one day this has not been completed.

Due to changes in personnel in the Office of Scientific Meetings at FASEB, which handles the meeting planning there has been no projections as the attendance or cost for EB18.

The deadline for Call for Abstracts will be December 7th, 2017.
The JPC received 11 Integrative Physiology symposium proposals for EB 2018 of which the following were selected. Each of the selected symposia was vetted by the members of the JPC and some changes were suggested.

- Remote Ischemic Preconditioning, Hypoxic Preconditioning, Vital Organ Protection
- Bioartificial Organs: Using Donor and Synthetic Scaffolds
- Tissue-Distributed Control of Sex Differences in Diabetes and Cardiovascular Disease
- Extracellular Matrix Remodeling and Integrin Signaling in Metabolic Diseases

In addition, two workshops are scheduled on the first day of EB 2018:
- Sex as Biological Variable (Yosten)
- Wearable Devices (Sandberg)

The President’s Symposium Series, organized by Dr. Dennis Brown, entitled *Exosomes: The New Frontier* will feature a series of three symposia and a Nobel Lecture:
- Cell Biology of Exosomes
- Exosomes in Diagnostics and Therapeutics
- Pathophysiology of Exomes
- Nobel Prize Award Lecture: Undetermined at this time

The Cannon Lecture will be given by Ole H. Petersen. The Bowditch Lecture will be given by Yatrik M. Shah

At the end of the meeting JPC had a general discussion about possible changes in EB19. With the loss of Wednesday there will need to be major changes. Two options were presented
1) There is a decrease in the number of oral sessions, anywhere from 20-25 sessions.
2) Increase the number of rooms each day. Adding two rooms each day will still require a cut of ~5 sessions. The concern is that adding rooms would increase the scientific overlap of oral sessions.

No clear preference was reached.

Additionally, there was a discussion concerning the JPC meeting that occurs Saturday at EB. It was recommended and approved by JPC that at EB18 the JPC would meet Tuesday at noon to have a general discussion about EB18, such as hot topic for EB19, room sizes, and any other items that would affect EB19 programming. It was then recommended that in EB19 that the Saturday JPC meeting would be moved to Thursday morning to provide time for a more detailed discussions, such as about symposia/featured topics for EB20, in an attempt to minimize scientific overlap and possible develop share oral session.

Robert Hester, Ph.D.
JPC Chair