News from the Chair, Carmen Hinojosa-Laborde

I enjoyed seeing many of you at the WEH Business Meeting Luncheon in Chicago. The scientific presentations from our members during EB were outstanding. Thank you to all for participating. So, are we ready to do it again? The preparations for EB 2018 in San Diego on April 21-25 are underway.

Please read the report from Kathryn Sandberg, WEH Programming Chair, for updates on abstract deadlines and WEH sponsored sessions. As usual, make plans to arrive in San Diego early on Saturday, April 21 to attend the WEH Trainee Session and Data Diuresis Session which kick off the WEH sponsored events. Congratulations to Dr. Dave Mattson who will present the 2018 Starling Lecture. Nominations for the WEH 2018 New Investigator Award are currently being solicited (see Awards Committee Report).

2018 Leonard Share Award Nominations: The WEH section has created a legacy award named after Dr. Leonard Share, WEH section founding member, to recognize a WEH member that has contributed their time and talents to our section as well as to APS. We like to refer to these members as our WEH “unsung heroes”. If you would like to nominate someone for the 2018 Leonard Share Award, please send me their name and CV by January 8, 2018.
Thanks to YOU! We have a terrific program lined up for EB 2018 in San Diego starting on Saturday April 21 and ending on Wednesday April 25, 2018.

**Abstract Submission DEADLINE is Thursday December 7, 2017** and unlike in previous years, there will be NO abstract submission deadline extension.

Submitting your abstracts to the WEH Featured Topics increases your chances of being selected for a platform presentation. Submitting your abstracts to the WEH poster sessions increases your chances of standing in the midst of other ongoing exciting research in water and electrolyte homeostasis!

SO Don't forget to designate WEH in your abstract submissions!

**WEH FEATURED TOPICS**

1350-APS Origins of Cardiovascular Disease: Does Metabolic disease always come first? (Spradley/De Souza)
1351-APS Adaptations in fluid balance and blood pressure regulation during pregnancy (Denton)
1352-APS Novel approaches and techniques in water and electrolyte research (Smith)
1353-APS Impact of diet on blood pressure regulation (Greene/Stodola)
1360-APS Immune Modulation of Blood Pressure and Vice Versa (Ryan/Itani)
1361-APS Stress, Sleep, Circadian Rhythms and Blood Pressure Regulation (Gumz/Johnston)

**POSTER SESSIONS**

1354-APS Blood pressure and fluid volume regulation in pregnancy
1355-APS Developmental programming and cardio-renal function in adults
1356-APS Cardiovascular and renal mechanisms in diabetes and metabolic syndrome
1357-APS Renin-angiotensin-aldosterone system in regulation of blood pressure and renal function
1358-APS Sex differences in blood pressure and fluid volume homeostasis
1359-APS Translational physiology in water and electrolyte homeostasis research

8888-EB Science Outreach Activity (outreach abstracts are due on Friday, January 12, 2018)

Start thinking about EB 2019 (April 6-10, 2019; Orlando, FL) AND send me (sandberg@gerorgetown.edu) all your ideas for future programming (Email subject category EB2019). This is YOUR meeting and we want to ensure your ideas are represented!

I look forward to seeing all of you in San Diego in 2018!
WEH Parliamentarian Report
Dao Ho, WEH Parliamentarian

The following WEH Steering Committee positions will become available with terms of the current incumbents ending at the close of EB 2018.

- Section Chair
- Committee on Committees Representative
- Awards Co-Chair

We are now soliciting nominations for these positions. If you would like to serve in any of these positions or would like to nominate someone for the position please send names to carmen.hinojose-laborde.civ@mail.mil. The Chair will be elected by ballot vote of the regular membership with a primary WEH affiliation. Candidates for Committee on Committees Representative and Awards co-Chair will be determined by the WEH Executive Committee from those nominated by the Section members. These positions will be elected by ballot by the Steering Committee. Being a member of the Steering Committee is a great way to become involved in your Section, so I encourage you to consider serving! Nomination deadline is January 8, 2018.

WEH Committee on Committees
Jennifer Sullivan, WEH Committee on Committee Representative

Now is the time to nominate yourself or a colleague to serve on one of the standing committees of APS. This is a great way to increase your involvement with the APS. Positions are available on many of the APS committees for both trainees and regular members. It is our goal to have WEH represented on all APS committees. Last year we had a large number of excellent candidates; we can do even better this year.

The application process is easy. First identify committees that fit your interests (http://www.the-aps.org/mm/hp/Audiences/APS-Committees). Second, email me to find out which committees have openings for WEH members (jensullivan@augusta.edu). Third, go to the APS website (http://www.the-aps.org/mm/hp/Audiences/APS-Committees/nominations) for helpful hints and instructions for uploading your application. All applications are submitted via the APS awards module (www.the-aps.org/awardapps). Finally identify an APS member to fill out an Endorsement Form for you, or contact me and I will be happy to help you. Nominations are due in January 2018 for Committee appointments beginning in January 2019. Please do not hesitate to contact me if you have questions or need help with your application!

Visit us at our web page!!

For general information related to the activities and organization of the WEH Section of the APS, please visit us at our web page http://www.the-aps.org/mm/hp/Audiences/Sections/Water-Electrolyte
Many thanks to all who contributed to WEH section funds in 2017

Barbara T. Alexander  Dao Ho  Nirupama Ramkumar
Magdalena Alonso-Galicia  Babbette B. LaMarca  Jane F. Reckelhoff
David P. Brooks  Analia S. Loria  Richard J. Roman
Kate Maude Denton  David L. Mattson  Willis K. Samson
Roger G. Evans  Sydney R. Murphy  Kathryn Sandberg
Michael Richard Garrett  Network For Good  Jennifer M. Sasser
Eric Matthew George  Carrie Annalice Northcott  Curt & Rita Sigmund
Justin L. Grobe  Ijeoma E. Obi  Joshua S. Speed
Zhengrong Guan  Paul M. O’Connor  Frank T. Spradley
John E. Hall  Oleg Palygin  Jennifer Case Sullivan
Sailesh Harwani  Chetan N. Patil  Erin Taylor
Joseph R. Haywood  Aaron J. Polichnowski  Catherine Uyehara Yamauchi
Carmen Hinojosa-Laborde  Jennifer Pollock

EB 2018 WEH Business Luncheon
Catherine Uyehara, WEH Secretary / Treasurer

Please Save the Date for the Water * Electrolyte Homeostasis annual luncheon business meeting at EB.

Date:  Sunday April 22, 2018
Time:  12:30 – 2:00 p.m. PDT
Location: Roy’s San Diego Waterfront
333 West Harbor Drive
San Diego, CA 92101

Tickets will be available for purchase at the APS website when you register for the meeting. Seats are limited so please get your ticket early to reserve your spot. We look forward to seeing you all in San Diego!

Support the WEH Section!!!

Please consider making a tax-deductible contribution to support the activities of the WEH section. There are three APS Funds that directly support WEH members and information for each can be found at http://www.the-aps.org/mm/hp/Audiences/Giving

• Carlos Romero Memorial Fund
  (under “Memorial and Award Fund”)

• Water & Electrolyte Homeostasis Section Leonard Share Endowment Fund
  (under “Matching Endowments”)

• Water & Electrolyte Homeostasis Section Fund
  (under “General Section and Group Funds”)

Donate Now

Many thanks to all who contributed to WEH section funds in 2017
Hello Trainees! We would like to thank all trainees and mentors that participated in the EB2017 Mentoring on the Go program. We are excited to report that the program was successful this year and is growing with an increase in trainee participation. We would also like to thank those of you who participated in the Survey. Your feedback is important to us as we continue to make this program a success. We are pleased to offer this program again at EB2018. Please look out for future email from TAC inviting all WEH trainees presenting a first-authored abstract to Experimental Biology to participate. If you have any questions about this program, please contact Ijeoma Obi at iobi@uab.edu or WEHTAC@gmail.com. As we prepare for EB2018, please note the following programs and deadlines:

**WEH Trainee Award for EB2018:**
WEH Portland Press Pre-doctoral Research Recognition Award: **December 7, 2017**
WEH Juan Carlos Romero Post-doctoral Research Recognition Award: **December 7, 2017**
For further information on the WEH Award, scoring criteria and conflict of interest policy, please visit: [http://www.the-aps.org/mm/awards/sections/weh.aspx#pre](http://www.the-aps.org/mm/awards/sections/weh.aspx#pre)

**Other APS trainee awards:**
Caroline tum Suden/ Frances Hellebrandt Professional Opportunity Awards: **December 7, 2017**
Translational Research Awards: **December 7, 2017**
Minority Travel Awards: **December 14, 2017**
Physiology Video Contest: “Function Follows Form”: **December 15, 2017**
Graduate Student Ambassadors: **December 15, 2017**
Porter Physiology Development Fellowship: **January 15, 2018**
To apply for these awards, please visit: [http://www.the-aps.org/awards](http://www.the-aps.org/awards)
**Please note that active APS membership is required to apply for these awards.**

**Writing opportunity for trainees:**
If you are interested in blogging about your research or any research topic of your choice for I Spy Physiology blog, contact Erica Roth at eroth@the-aps.org.

For more information and resources, please visit our Facebook page: [https://www.facebook.com/APSWEH](https://www.facebook.com/APSWEH). Don’t forget to “like” our page to receive updates on your newsfeed! For suggestions on how we may better serve you, please contact us at WEHTAC@gmail.com.
WEH Awards Committee
Maggie Alonso-Galicia, WEH Awards Chair
Carrie Northcott, WEH Awards Co-Chair

2018 WEH New Investigator Award sponsored by Data Sciences International
The New Investigator Award recognizes an outstanding investigator that has made meritorious contributions to the areas represented by WEH and is in the early stages of his/her career. The investigator should not be above the rank of Assistant Professor (or comparable) and in a research track at an academic institution or industry. Any member of the APS in good standing with a primary affiliation in the WEH Section is encouraged to apply.

Award: The recipient of the award will present a lecture on their research during a WEH sponsored session at the annual EB meeting, and will receive $1,000, reimbursement of the advance registration fee, complimentary ticket to attend the WEH Business Luncheon meeting, one year of APS membership dues, and an invitation to publish a manuscript on their work to the American Journal of Physiology-Regulatory, Integrative & Comparative Physiology. The awardee must attend both the EB meeting and the WEH Business Luncheon meeting (complimentary ticket) in order to collect the cash prize.

Applications must include: (1) a current CV of the nominee with a complete list of publications; (2) a brief one-page summary and analysis of the research contributions of the nominee; (3) two letters of nomination from members of the APS.

Deadline: December 7, 2017 (all application materials must be submitted by this time).

Selection process: Candidates will be judged by the WEH Awards Committee on their publications, how their work relates to the WEH Section, letters of recommendation, evidence of independence, engagement and future promise as a researcher (grant funding, peer review activities, etc.).

How to apply: For more information and to submit your online application, see our website: http://www.the-aps.org/mm/awards/sections/weh.aspx or contact Maggie Alonso-Galicia or Carrie Northcott with questions. Please consider nominating your colleagues, former trainees, or asking a fellow WEH section member to nominate you!

2018 Trainee Awards:
The WEH Juan Carlos Romero and WEH Section Postdoctoral Research Recognition Awards and the WEH Portland Press Predoctoral Research Recognition Awards: To be eligible, Applicants must be post-doctoral or pre-doctoral trainees and first author on an abstract submitted to a WEH Section sponsored topic category at the EB meeting. All past finalists are welcomed to apply again, however award winners are ineligible to compete again for the same award.

Award: The WEH Awards committee will select three finalists for each award who agree to attend EB, and agree to give an oral presentation in a WEH sponsored session. Finalists will receive $300 and a complimentary ticket to the WEH Luncheon and Business meeting. The overall winners will receive an additional $300 and will be invited to submit a Featured Topic for the following EB meeting under the direction of a steering committee member or the recipient of the WEH New Investigator Award.

Selection Process: The WEH Awards Committee will evaluate abstracts based on the criteria available on the WEH Section website (http://www.the-aps.org/mm/awards/sections/weh.aspx). Finalists will be judged on their oral presentation and abstract.
2018 WEH Research Distinction Awards will be given to high-scored abstracts submitted by pre-doctoral and post-doctoral trainees to a WEH Section sponsored topic category at the EB meeting. The Section Awards Committee will grade all submitted abstracts based on criteria available on the WEH Section website (http://www.the-aps.org/mm/awards/sections/weh.aspx); the high-scored abstracts that are not selected for oral presentations will be considered for these awards. **Award:** The winners will be announced at the WEH Luncheon and Business meeting at the EB meeting and will receive a complimentary ticket to the WEH Luncheon and Business meeting for the following year.

**How to apply:** To be considered for these Awards please check the box during the submission of your abstract to EB. The **deadline is December 7, 2017.**

2018 WEH / AJP: Regulatory, Integrative, and Comparative Award will be given to a pre-doctoral or post-doctoral trainee who has received a high-scored abstract in a WEH Section sponsored topic category and who has evidence of promise based on their CV. The Section Awards Committee will grade all submitted trainee abstracts based on criteria available on the WEH Section website (http://www.the-aps.org/mm/awards/sections/weh.aspx); the high-scored abstracts that are not selected for oral presentation will be considered for this award. **How to apply:** To be considered for this award, trainees must submit a current CV with a complete list of publications at the time of abstract submission (December 7, 2017). **Award:** The award winner will be announced at the WEH Luncheon and Business meeting at the EB meeting and will receive $250 and an invitation to submit a mini-review to the American Journal of Physiology-Regulatory, Integrative & Comparative Physiology.

**ALL TRAINEE APPLICANTS** are strongly encouraged to read “Scoring WEH Trainee Award Applications” before submitting their application (http://www.the-aps.org/mm/awards/sections/weh.aspx). The document provides the metrics by which all abstracts and oral presentations will be judged so be sure to cover them in your submissions.

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**Updates from the Career Opportunities in Physiology Committee:**

**Awards, Fellowships and Contest Deadlines**

The Dale J. Benos Early Career Professional Service Award honors an early career stage (graduate student, post-doctoral fellow, Assistant Professor or equivalent position) member of the APS with outstanding contributions to the physiology community and demonstrated dedication and commitment to furthering the broader goals of the physiology community. Deadline: January 24, 2018.

Minority Travel Fellowship Awards allow individuals who traditionally have been underrepresented in the physiological sciences to attend the APS meetings and conferences to increase active participation in and networking at scientific meetings among pre- and post-doctoral students. Awardees will receive up to $1,800 in expense reimbursement for registration and travel and is matched with an APS “Meeting Mentor” at the conference. Deadline: 1 week after the EB abstract or APS conference abstract deadline.

The Porter Physiology Development Fellowship, now in its 50th year, is open to underrepresented racial/ethnic minority graduate students who are pursuing full-time studies toward the PhD in the physiological sciences. Applicants and their advisor/PI must be APS members. The annual stipend is $28,300. Deadline: January 15th. For full details, visit www.the-aps.org/porter.

Physiology Video Contest are short YouTube videos created and submitted by undergraduate and graduate trainees. Videos will be voted on by both the Careers Committee and the general public. **1st place:** $750 + up to $1,000 to partially cover travel costs to attend Experimental Biology Viewer’s Choice: $250. For all details see http://bit.ly/2fXNzUO. To see the last year’s winners go to: http://bit.ly/2gG08mw
It is with great pleasure that the WEH Section announces the 2018 Ernest H. Starling Distinguished Lecturer, Dr. David Mattson. The Starling Award is the most prestigious of the APS WEH Section awards and is awarded annually to an APS member recognized for exceptional contributions and lifelong dedication to Water and Electrolyte Homeostasis research. Dr. Mattson is Professor of Physiology at the Medical College of Wisconsin, in Milwaukee. His research has significantly contributed to the understanding of how genetics, immunity, and renal mechanisms contribute to salt-sensitive hypertension. Dr. Mattson’s Starling Lecture is titled, “Diet, Inflammation and Hypertension”. Please congratulate Dr. Mattson on this well-deserved honor!

**WEH Section Membership Report**

*Frank Spradley, WEH At-Large Councilor for Membership*

Happy Fall, Y’all! It’s that time of year to report on the membership status of the WEH Section. There is currently a total of 211 primary, 387 secondary, and 329 members affiliated with our Section. Since January 2017, we have had 12 primary, 16 secondary, and 12 tertiary members join our ranks. We will pay the first year of APS membership for new members when they place WEH as their primary affiliation. According to records, this addition of new members is very similar to those that joined in 2016. Thus, we have held steady with the addition of new, exciting members to our group. However, we have maintained the total number of primary members at right around 200 folks. It may be that members are not renewing their memberships. Please, take a moment to check if you have renewed your APS membership, and remind your colleagues to do the same. Also, please welcome our new members when you see them at our WEH Business Luncheon, or in sessions, at EB 2018 in San Diego. Note, we will provide free entry to attend the WEH luncheon for all of those that have joined, or will join, since EB 2017. Keep your eyes open for the new members to give them a handshake and for all of the exciting programming at the upcoming EB meeting, which has been developed by WEH members of all career stages. I look forward to working with our members and steering committee to grow the support and membership of OUR section. Do not hesitate to contact me with ideas regarding this purpose, and encourage your colleagues to join the WEH section of the APS.

**Send us photos from your PhUn Week event**

If you participate in PhUn Week 2017, please send us photos of your event for inclusion in the Spring WEH newsletter! If you are interested in participating in next year’s event, check out the APS website: [http://www.the-aps.org/mm/Education/K-12/EducationProej.cts/PhUn-Week.aspx](http://www.the-aps.org/mm/Education/K-12/EducationProej.cts/PhUn-Week.aspx)

**Share Your Photos of WEH Activities**

We would like to share your photos through WEH social media! Please send any photos of WEH related activities (i.e. PhUn events, EB poster and oral presentations, awardees, luncheons etc) to [WEHTAC@gmail.com](mailto:WEHTAC@gmail.com), so that the whole section can see them on Facebook, Instagram, Twitter and in future newsletters.
WEH Perspective - Juan Carlos Romero, M.D.

Denise Cornelius, WEH Historian

In 2009, the Juan Carlos Romero and Water and Electrolyte Homeostasis Section Postdoctoral Research Recognition Award was established in memory of Dr. Juan Carlos Romero. Juan Carlos Romero studied medicine at the School of Medicine of the National University of Cuyo in Mendoza, from which he graduated in 1964. In 1962, as a medical student, he began his research career under the tutelage of Dr. Juan Carlos Fasciolo investigating the renin-angiotensin system and its relation to arterial hypertension. In 1964, Dr. Romero published his first scientific article entitled “The Renin Content of the Blood of Human and Dogs under Several Conditions”.

Dr. Romero came to the United States in 1967 on a hypertension research fellowship to join the laboratory of Dr. Sibley W. Hoobler, director of the Hypertension Division at the University of Michigan Medical School, Ann Arbor. There Dr. Romero continued his investigation into the contribution of the renin-angiotensin system to the pathogenesis of hypertension and into the roles prostaglandins played in renal function. Based on his success in developing an assay to measure prostaglandins, in 1974, Dr. Romero joined the staff at the Mayo Clinic, Division of Nephrology and Hypertension, in Rochester Minnesota, as an assistant professor and researcher. Dr. Romero rose through the ranks at Mayo, to become a Consultant and Professor of Physiology and Medicine, all the while making significant research contributions to understanding the mechanisms involved in the regulation of renal function and developing novel imaging techniques that advanced the diagnosis of renal vascular hypertension. Dr. Romero established an internationally recognized research program that focused on the characterization of mechanisms linking the renin-angiotensin system, prostaglandins, nitric oxide, and oxidative stress in the regulation of renal function and arterial pressure. He also played an integral role in the development of methods that improved diagnosis of renal injury using computerized tomography with his colleagues at the Mayo Clinic.

Over his 41 years in the US in research, Dr. Romero published more than 250 original papers, chapters and books. He received numerous awards recognizing his outstanding research contributions, including the Novartis Excellence in Hypertension Research Award from the American Heart Association High Blood Pressure Research Council (now the Council on Hypertension), Honorable Distinction given by the Government of Argentina for Scientific Achievement, the Arthur C. Guyton Distinguished Professorship Award from the University of Mississippi Medical Center, and the Lifetime Achievement Award from the Inter-American Society of Hypertension. Dr. Romero's work was continuously funded by the NIH for 39 years.

In addition to his outstanding medical and research contributions, Dr. Romero was an exceptional mentor and teacher. He trained over 250 physicians, fellows and graduate students from all over the world in his laboratory. As a result, he was given the Teacher of the Year Award from the Mayo School of Medicine, and the Juan Negrin Award for Excellence in Medical Physiology from the Spanish Society of Physiology. Dr. Romero passed away December 30, 2008, but his legacy lives on in our section and the APS through the establishment of the trainee award in his memory.

To learn more about the work and life of Dr. Juan Carlos Romero please see: https://doi.org/10.1161/HYPERTENSIONAHA.109.134437
EB 2018 PIC Symposium: To foster greater interaction among sections, academia, and industry, the EB2018 PIC symposium will focus on basic sciences topics with preclinical stages of development and translation that has broad appeal to cross sectional APS members. The title of 2018 PIC symposium is “Biosensors Advancing Health and Disease Research”. The session will be coordinated and chaired by Brandon Bucher and co-chaired by T Dylan Olver, Ph.D. Mr. Boucher is an active member of the committee and Dr. Olver is our 2017 Novel Disease Model Award recipient at the postdoctoral level. We are looking forward to seeing you all at the EB 2018 events and Physiologists in Industry Committee Symposium on Monday, April 23, 2018 1:30 – 3:00 PM.

EB2017 PIC Symposium, entitled "Nitric Oxide Pathway Modulation for Therapeutic Intervention and Exercise Enhancement" was organized and chaired by John Mattson, Ph.D. and Co-chaired by Kavaljit Chhabra, Ph.D. (Post-doctoral recipient of 2016 PIC Novel Disease Award). The session was co-sponsored with the EEP section. Attendance was excellent with more than 300 attending and Dr. Mattson was invited to submit the symposium as an invited manuscript to the Journal of Applied Physiology.

EB2017 Novel Disease Awards: This award recognized a graduate student and a postdoctoral fellow whose investigation has been designated by the Physiologists in Industry Committee as an outstanding example of experimental research. The winner of the postdoctoral award was Dr. T. Dylan Olver, University of Missouri, Columbia, for the project entitled “Elucidating the Mechanisms of Pial and Paraenchymal Cerebral Small Vessel Disease in a Novel Porcine Model of HFpEF”. The winner of the predoctoral award was Ms. Kasi McPherson, University of Mississippi Medical Center, for the project entitled “Treatment with Lisinopril Delays the Early Progression of Proteinuria in a Novel Model of Prepubertal Obesity”.

In an effort to broaden the award focus to include more areas of research that is translatable to industry, the Physiologists in Industry Committee was approved to change the name of the Award from “Novel Disease Model” to “Translational Research Award”. Briefly, this award recognizes one pre-doctoral and one post-doctoral trainee whose area of experimental research is translatable to industry applications. Applicants will be evaluated on their first-author EB meeting abstract, supplementary description of their project and career goals.

Physiologists in Industry Committee Mixer: The 15th annual Physiologists in Industry Committee Mixer was held on Sunday, April 23, 6:45 - 8:00 pm at the Chicago Hyatt Regency McCormick Place. The annual Physiologists in Industry Committee Mixer is traditionally a great opportunity to network with industry and academic APS members alike. The mixer is designed to attract trainees and engage them in discussion about careers, research, and opportunities in industry positions. This year we included a cash bar and free hors d’oeuvres. The mixer was well attended and provided a great chance for meaningful industry career opportunity discussions.
Awardees from EB 2017

2017 Ernest H. Starling Distinguished Lectureship

Peter Bie, MD, DMSc
Professor Emeritus
Department of Cardiovascular and Renal Research, Institute of Molecular Medicine
University of Southern Denmark

2017 WEH Leonard Share Award

Peter Bie, MD, DMSc
Professor Emeritus
Department of Cardiovascular and Renal Research, Institute of Molecular Medicine
University of Southern Denmark

2017 WEH New Investigator Award

Meena Madhur, MD, PhD
Assistant Professor,
Department of Physiology
University of Mississippi Medical Center
WEH Data Sciences Inc. Pre-doctoral Trainee Awardees:

L to R: Professor Stefan Roberts, (Honorary Meetings Secretary of the Biochemical Society), Maggie Alonso-Galicia (Awards Chair), Alissa Frame (Finalist), Jeremy Sandgren (Awardee), Venkata Ramana Vaka (Finalist), Carmen Hinojosa-Laborde (WEH Chair), Clare Curtis (Portland Press)

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