



# Clinical Science Trumpet

Newsletter of the Association of Clinical Scientists

Kamisha L. Johnson-Davis, PhD, DABCC (CC, TC), FACB, FACSc, Editor

Vol 38, No 3—September 2018

## Association Welcomes Members to Hershey, PA

### 139th Annual Meeting

May 15-18, 2019

Hotel Hershey, Hershey, PA

The 139th Meeting of the Association of Clinical Scientists will be held in Hershey, Pennsylvania, May 15th through 18th, 2019. It will be sponsored jointly by the Penn State University, College of Medicine, Hershey, PA and the Geisinger Health System and Medical Center, Danville, PA. The meeting has two main themes: "Opioid Stewardship" and "Lab 2.0," and these themes will be covered in two of the sessions at the meeting.

### HIGHLIGHTS

The Abraham J. Gitlitz Memorial Lecture will be presented by **Rachel L. Levine, M.D.**, Secretary of Health of the Commonwealth of Pennsylvania, and Professor of Pediatrics and Psychiatry at Penn State College of Medicine, speaking on our theme of Opioid Stewardship.

The Annual Banquet will include the presentation of the Association's awards and our featured speaker will be **Graham S. Hetrick, F.D.**, Coroner of Dauphin County, Pennsylvania, Adjunct Professor of Forensics and Human Anatomy at Harrisburg University School of Science and Technology, and host of the TV program, *The Coroner: I Speak for the Dead*.

The meeting will open on Thursday morning with lectures and tours of Penn State College of Medicine, Clinical Laboratories and Simulation Labs. On Thursday afternoon will be our usual cultural/historic bus tour for participants and spouses.

Possible sites include the [Hershey Story Museum](#), the [Hershey Rose Garden and Conservatory](#), and the National Auto Club of America; details will be announced in the next issue of *Clinical Science Trumpet*. On Thursday evening there will be an opening reception and dinner at the Hershey Conservatory featuring the Gitlitz Memorial Lecture by Dr. Rachel Levine.

Drs. Keri Donaldson and Myra Wilkerson, Program Committee Co-Chairs, and their



The Penn State University College of Medicine, Hershey, PA

Click photo to learn more



Dr. Rachel Levine



Graham S. Hetrick

Click photo to learn more

Click photo to learn more

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# 2019 in Hershey...

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committee of Drs. Laurence Demers, Magali Fontaine, Amanda Haynes, Jordan Newell, Jennifer O'Brien, and Jordan Olson, cordially invite you to attend this outstanding Association meeting.

## ACCOMMODATIONS

Our headquarters for the meeting is the beautiful **Hotel Hershey**, 100 Hotel Road, Hershey, PA 17033 (telephone 855-729-3108).

Built in the early 1930's, this AAA 4-Diamond Awardee has also received the Forbes Four Star Award and accolades from Historic Hotels of America and the Harrisburg Magazine Readers Poll. The Hotel Hershey, an historic landmark, is known for its refined elegance, signature service, and abundant amenities and is a one-of-a-kind destination in Chocolate Town® USA. It is situated high atop the town of Hershey and has 276 guest rooms, including 48 cottages, as well as 25,000 square feet of meeting and function space.

The Association's guaranteed rate for the conference, including additional days before or after the meeting is \$239 plus taxes. This rate will be honored until April 15, 2019. The hotel has established a URL link for attendees of the ACS meeting to make hotel reservations:

<https://book.passkey.com/go/AssnOfClinicalScientists2019>.

You may also use the phone number above and be sure to mention the Association of Clinical Scientists.

## TRANSPORTATION

Details about transportation to Hershey, through Harrisburg International Airport or other routings, can be found on the Association's website at:

<http://www.clinicalscience.org/annualmeeting.html#Transportation>



*Hotel Hershey front facade [above] and reception lobby [below]*



*The historic Fountain Lobby [above] and one of several meeting rooms [below] at the Hotel Hershey*



*Geisinger Health System and Medical Center, Danville, PA*



*The Circular is the flagship dining experience at the Hotel Hershey*



# Awards Committee Announces 2019 ACS Awards

The 2019 Awards Committee, chaired by Myra L. Wilkerson, M.D., FACP, FACSc, has announced the following Association Awards to be presented at the Reception and Awards Banquet on May 17 at the 2019 Annual Meeting in Hershey.

## Clinical Scientist of the Year

JOSHUA A. BORNHORST, PH.D., DABCC

**Dr. Joshua Bornhorst** is a Senior Associate Consultant in the Department of Laboratory Medicine and Pathology at the Mayo Clinic where he serves as Co-Director of the Clinical Immunoassay and Metals Laboratories.

Previously he was Associate Professor of Pathology in the Department of Pathology at the University of Arkansas for Medical Sciences School of Medicine. He was technical and operations director of the AP and CP sections of the University of Arkansas Clinical Laboratory and was also the Director of the Chemistry, Toxicology, Immunology, Pediatric Clinical Laboratory, and Point-of-Care Testing sections of the University of Arkansas hospital system.

Dr. Bornhorst received a Ph.D. in biochemistry from the University of Colorado Boulder and entered the clinical chemistry fellowship program at the University of Utah/ARUP laboratories. At Arkansas, he worked to fully automate chemistry testing, reduce turnaround time, improve results reporting, and expand in-house testing menus, as well as educate pathology residents.

His research interests include a wide variety of topics related to clinical chemistry. They include preanalytical variation, laboratory automation, point of care testing, alpha 1-antitrypsin diagnosis and myeloma markers.

He has received several honors and awards throughout his career and is a past winner of the AACC Scientific Achievement by a Young Investigator award (2009). He is a diplomate of the American Board of Clinical Chemistry and a fellow of the National Academy of Clinical Biochemistry.

He has authored over 25 peer reviewed publications, written and contributed to over 50 abstracts, 7 book chapters, and serves on the board of Editors of Clinical Laboratory News. He has served as Treasurer of the Association of Clinical Scientists, and chair of the Management Sciences and Patient Safety Division of AACC.



*Joshua Bornhorst*

## F.W. Sunderman, Jr. Diploma of Honor

JOHN HICKS, M.D., D.D.S., PH.D.

**Dr. John Hicks** is an attending pediatric pathologist at Texas Children's Hospital and Professor of pathology, immunology and pediatrics at Baylor College of Medicine in Houston Texas. He served as Chair of the Pathology Discipline for the Children's Oncology Group from 2006 to 2016, and currently serves on the Steering Committee for the Pathology Discipline and as the review pathologist for the Rare Tumor Protocol.



*John Hicks*

Dr. Hicks' clinical and research interests are directed toward soft tissue and bone tumors, as well as oral and maxillofacial pathology. He is a collaborator on several funded national, regional and local research grants. He has published over 400 peer-reviewed papers and 25 book chapters.

Dr. Hicks was recently honored as the 2017 recipient of the Clinical Scientist of the Year (Sunderman Award) by the Association of Clinical Scientists (ACS). He has served on several ACS Committees (Executive, Membership and Mentoring, Publication, Nomination, Program). From 2017-18, he served as Vice President and currently is the President-Elect. He enjoys the collegiality and warm environment of the Association of Clinical Scientists, and is looking forward to serving as President in 2019-20.

## Young Clinical Scientist Award

CAPTAIN DEVIN BROADWATER, M.D.

**Dr. Devin Broadwater** is a graduate of the University of Alabama at Birmingham and is currently in training as a pathology resident at San Antonio Military Medical Center.

He also serves as a Captain in the United States Air Force and is an active member of the Alpha Omega Alpha Honor Medical Society.



*Capt. Devin Broadwater*

Since medical school, Dr. Broadwater has continually committed himself to producing novel research. To this day, he collaborates with pathologists from his medical school and other institutions to continue larger scale projects. Currently, his academic interests involve prognostic studies and deep learning. In addition to research, Dr. Broadwater is actively engaged in his residency program teaching rotating medical students, lecturing surgical subspecialties on intraoperative consultation, and participating on the Program Evaluation Committee.

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# 2019 Awards...

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## Gold Headed Cane

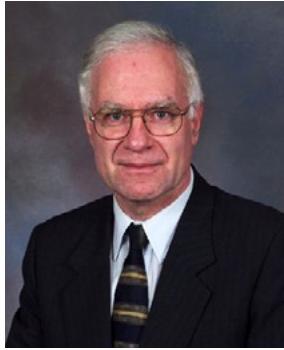
CLIVE R. HAMLIN, PH.D.

**Dr. Clive R. Hamlin**, a native of England, lived in Rhodesia, England, and Canada, before settling in Cleveland, Ohio, where he is Associate Professor in the Department of Pathology, School of Medicine at Case Western Reserve University (CWRU).

Dr. Hamlin received his B.S. in Chemistry and Physics and an M.S. in Chemistry from the University of London (United Kingdom) and a Ph.D. in Biochemistry from the University of Waterloo (Canada). He completed postdoctoral work in biochemistry at the University of Waterloo and the University of Rochester, and in experimental pathology at CWRU and University Hospitals of Cleveland. He also served as an instructor at CWRU's Institute of Pathology before becoming Director of Clinical Chemistry from 1970-95, during which time he was also an Assistant Professor of Experimental Pathology (1972-82), and Trustee and Director of University Medical Laboratories (1984-95). Through 2017 he was the Laboratory Director of the National Prion Disease Pathology Surveillance Center and the University Suburban Health Center, and still has a small role with each of these laboratories.

Dr. Hamlin attended his first Association of Clinical Scientists meeting in 1985 and, with the encouragement of two past presidents, James Wu and Joe Knight, became a Fellow in 1986. He has been a regular attendee at the Association's meetings, presenting 23 papers, most recently in his current research area of prion disease, for which the abstracts were published in the Annals of Clinical and Laboratory Science. He has authored or co-authored 34 peer-reviewed papers and 53 abstracts. He received the Association's Diploma of Honor in 2000 and was named the Association's Clinical Scientist of the Year (Sunderman Award) in 2013.

Clive Hamlin



Dr. Robert Brown, recipient of the 2018 Gold Headed Cane Award, with his wife Dorothy while at the 2018 Annual Meeting in Houston

## President's Corner

Welcome to the President's Corner! It is my honor to provide a brief overview on what is happening in the ACS.

### Annual Meetings

It was wonderful seeing everyone at the Houston ACS annual meeting in May. The venue was excellent, the science and speakers were very interesting and engaging and the NASA visit was impressive. Kudos to Dr. Hu and the Program Committee.

Our next Annual meeting is scheduled for May 15-18, 2019 in Hershey PA.



Robert Hardy

Once again the venue promises to be outstanding at the famous Hershey Hotel (see our website for details). This will be the 139th meeting of the Association of Clinical Scientists and will be held and sponsored jointly by the Penn State University, College of Medicine, Hershey, PA and the Geisinger Health System and Medical Center, Danville, PA. The meeting will have two main themes: "Opioid Stewardship" (we are all keenly aware of the opioid crisis) and "Lab 2.0," or how can laboratories improve and create health care value. These topics are important, relevant and evolving and this meeting will keep us up to date. More details are available on the ACS website so please mark your calendars and plan to present your science at next year's meeting.

Beyond the 2019 Annual Meeting we have a venue for the 2020 Annual Meeting and candidate venues for beyond 2020. I would like to reach out to all our members to contact me or other members of Executive Committee with ideas about future venues for our Annual Meetings.

### Growing ACS

The Executive Committee (EC) continues to work hard generating new directions that will help to improve and grow the ACS. One of our exciting changes the EC is working on is the introduction of Educational Sessions at our annual meetings. These sessions will address current hot topics that will enhance our Continuing Education Mission for our members, attract more attendees and provide another income stream for the ACS. Other exciting ongoing changes are to revitalize the ACS Committees, and to realign the Editorial Board of the ACS journal, *Annals of Clinical and Laboratory Science*, with the Scientific Sections.

We welcome new EC members Dr. Alexander Feldman as the new Chair of Young Fellows Section Oversight Committee as well as new Members at Large, Drs. Stephen M Roper and Consolato M Sergi.

### New Members

It is my pleasure to announce four new members since April 2018.

- **Robert Brent Dixon** (Fellow)
- **Sapna Legha** (Fellow)
- **Alexander Feldman** (Fellow)
- **Yugandhar Manda** (Fellow)

If you have any comments, concerns or ideas you can contact me at [rohardy@uabmc.edu](mailto:rohardy@uabmc.edu).

Sincerely,

Robert Hardy

# Association Holds Outstanding 138th Meeting in Houston

by Charles D. Hawker, Ph.D., M.B.A.

Attendees at the Association's annual meeting in May gave Program Committee Co-chairs **Peter Hu, Ph.D.** and **Awdhesh Kalia, Ph.D.** standing ovations at the annual Business Meeting in recognition of their leadership in developing an outstanding program and organizing a very successful meeting. Our facility, the Marriott Houston Medical Center was an excellent venue and only a five minute walk to the Friday morning lectures and laboratory tours. The meeting theme was Genomic Medicine and attendees were especially fortunate to hear presentations by three prominent keynote speakers. The Abraham J. Gitlitz Memorial Lecture was presented by **Andy Futreal, Ph.D.**, Chair and Professor of the Department of Genomic Medicine and the Robert A. Welch Distinguished University Chair for the University of Texas MD Anderson Cancer Center. His talk was entitled *Cancer Heterogeneity: Challenges and Opportunities for Clinical Impact*.

At the annual Awards Banquet, **C. Thomas Caskey, M.D., FACP, FACME, FRSC**, Professor in the Department of Molecular & Human Genetics–Baylor College of Medicine, spoke on *Precision Medicine Reduces Genetics Disease Risk*. Professor Caskey was especially mindful that the audience was not all scientists and was able to present his topic such that all could enjoy it. The Claude P. Brown Memorial Lecture was presented by **Stanley R. Hamilton, M.D., FCAP, AGAF**, a Professor and the Head of Pathology and Laboratory Medicine at the University of Texas MD Anderson Cancer Center. His talk was entitled *The Road to Precision Oncology: Are We There Yet?*

In addition to 48 excellent oral presentations, the meeting featured posters for the first time in five years with a total of 26 posters. At the Awards Banquet the Association presented awards for best posters to **Brette Hannigan** and **Annie Koenig, Mashiat**

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President Robert Hardy with Banquet Speaker Dr. C. Thomas Caskey following his presentation on precision medicine



Drs. Roland Valdes and Roger Bertholf pose at the 2018 Annual Meeting in Houston



Dr. Philip Foulis receives the FW Sunderman, Jr. Diploma of Honor from Myra Wilkerson, Awards Chair, at the 2018 Annual Meeting in Houston

Dr. Peter Hu, Program Committee Co-Chair with students from the MD Anderson Cancer Center School of Health Professions

# Outstanding 138th Meeting in Houston

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**Rabbani** and **Mauli Shah** (shared), all graduate students at the School of Health Professions—MD Anderson Cancer Center. In addition, four travel grants were presented to **Diana Morlot**, **M.D.**, **Xiqi Li, M.D.**, **Jacquelyn Reuther, Ph.D.**, and **Lee Springer, Ph.D.**, based on the quality of their submitted abstracts. The travel grants will be for \$1000 each for these individuals to attend the 2019 meeting in Hershey, PA. Three Association fellowships were also presented at the Awards Banquet. The recipients, **Karina Eterovic, Ph.D.**, **Ruth Ann Luna, Ph.D.**, and **Keyur Patel, M.D., Ph.D.**, will receive complimentary Association memberships through 2019.

The Association's main awards presented included the Young Clinical Scientist awarded to **Delu (Tyler) Yin, Ph.D.**, the F.W. Sunderman Jr. Diploma of Honor to **Philip R. Foulis, M.D., MPH**, the Clinical Scientist of the Year to **Peter C. Hu, Ph.D.**, and the Gold Headed Cane Award to **Robert E. Brown, M.D.** Dr. Brown gave an especially moving acceptance.

In a new and successful experiment the Business Meeting was conducted as a luncheon meeting. The minutes can be found elsewhere in this newsletter, but most notably the members unanimously approved a very significant amendment to our Constitution and Bylaws which shifted the Executive Committee from having three past presidents to only one past president, but replaced those individuals with two elected members of the Executive Committee. In addition, a new position of President Elect was approved which created a leadership sequence on the Executive Committee of Vice President (one year), President Elect (one year), President (one year), and Past President (one year). These changes were made to improve the organizational knowledge and experience of the leadership as well as increase the number of Executive Committee positions available in each election. Newly elected as members of the Executive Committee

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**Annual Meeting attendees at the Mission Control Center during the tour of NASA**



## Corporate Contributors for 138th Meeting

The Association of Clinical Scientists wishes to thank the following institutions for their generous support of the 2018 Annual Meeting. A total of \$18,500 was contributed which played a significant role in making this meeting successful.

### PLATINUM SPONSORS

Texas Children's Hospital,  
Baylor College of Medicine

BeckmanCoulter

### GOLD SPONSORS

Becton, Dickinson and Company

### SILVER SPONSORS

Illumina

### BRONZE SPONSORS

ThermoFisher



**Dr. C. Thomas Caskey, Banquet Speaker with students from the MD Anderson Cancer Center School of Health Professions**

# Outstanding Meeting... continued from page 6

were **Consolato Sergi, M.D., Ph.D.** to a two year term and **Stephen Roper, Ph.D.** to a one year term. **Keri Donaldson, M.D., Ph.D.** was elected Vice President, **John Hicks, M.D., D.D.S., Ph.D.** was elected President Elect, **Robert Hardy, Ph.D.** was elected President, and **Delu (Tyler) Yin, Ph.D.** was elected to a three year term as Secretary.

Other notable events at the 138th meeting including the opening reception on Thursday evening and the special tour of NASA on Friday afternoon (which took participants to several facilities not open to the general public, such as the buoyancy pool, mission control, and flight simulator training). And, as usual, the meeting concluded on Saturday evening with the annual Musicale and Art Show led by **Myra Wilkerson, M.D.**



## The Auxiliary

Notes from the 2018 Annual Meeting, held in Houston, from **Becky Hunter**, Auxiliary President:

The ACS Auxiliary enjoyed several fun filled days including trips to the Museum of Fine Art where we saw the exhibit on Michelangelo and the Sistine Chapel (some works so rare they were protected by bullet proof glass). Also on our agenda were visits to Houston Center for Contemporary Craft, China Town and NASA. Renewing friendships remains a cornerstone of what we do and already we look forward to next years meeting in Hershey, Pa.

Next year's officers:

<b>Dot Brown</b>	President
<b>Charlotte Cannon</b>	Secretary
<b>Adrienne Hopfer</b>	Treasurer
<b>Becky Hunter</b>	Immediate past president
<b>Becky Hunter</b>	Historian



*The Auxiliary made trips during the 2018 Annual Meeting to see the Houston Museum of Fine Art (above) and the Houston Center for Contemporary Craft (below), as well visited Houston's Chinatown, and NASA*



## The Young Fellows Section

I am thankful to the Executive Committee for allowing me the opportunity to serve as the new Young Fellows Section Chair. I must also thank **Dr. DeLu (Tyler) Yin** for his excellent service as our past chair. Having last spring completed my AP/CP residency at the University of Alabama at Birmingham, I am currently in my pediatric pathology fellowship at Nationwide Children's Hospital in Columbus, Ohio, and will be continuing on after that with a neuropathology fellowship at Northwestern. I have been attending ACS events for the past two years and look forward to my new role in the organization.



**Alex Feldman**

The Young Fellows Section will also be holding a social event during our upcoming Annual Meeting in Hershey, PA. This will be a great opportunity to meet up with your peers in a relaxed atmosphere, have some fun, and also a chance to learn about other ways to get involved with ACS, such as publishing in our journal or serving on committees or in an elected position. Senior members will be present to answer questions and offer suggestions. I'll be sharing more details about this as we get closer to the conference. In the meantime, please feel free to reach out to me via email (see below) at any time.

Sincerely,

Alex Feldman, MD  
Chair, Young Fellows Section - Association of Clinical Scientists  
Pediatric Pathology Fellow, Nationwide Children's Hospital

**YOUNG FELLOWS SECTION CHAIR:**  
**Alex Feldman, M.D.**  
email: [afeldman@uabmc.edu](mailto:afeldman@uabmc.edu)



# Interview: Dr. Clive Hamlin

The Young Fellows Section arranges interviews between Young Fellows and more senior Fellows. Young Fellows can obtain scientific and career advice from a senior member who may offer valuable guidance. For this issue, below is an interview between *Clinical Science Trumpet* Editor Kamisha Johnson-Davis, Ph.D. and Clive Hamlin, Ph.D.

**Kamisha Johnson-Davis:** Tell me a little bit about yourself. Where did you grow up? Where did you go to school?

**Clive Hamlin:** I was born in England January 1941. In 1954, I emigrated with my family, via boat and train, to Southern Rhodesia, where I completed high school and attended college, concentrating on the physical sciences. During one summer, I filled-in for a vacationing quality-control chemist at the local Unilever plant, which manufactured margarine. One day a 500g container of pure vitamin D was found missing; eventually, a laboratory orderly admitted taking it. Believing it to be a healthy material, his family had used it as cooking oil, but apparently suffered no subsequent health issues. During the following summer, I travelled through much of central Africa including the Belgian Congo, Ruanda-Urundi, Tanganyika and Northern Rhodesia. I completed my undergraduate studies December 1961 with plans for September 1962 to start graduate studies at Imperial College, London.

**Johnson-Davis:** How did you develop an interest in science and medicine?

**Hamlin:** During the intervening months, I spent some time working with ore processing at a copper/uranium mine, followed by an over-land trip to London, via Sudan, Egypt, the Middle East, then from southern to northern Europe. Conversation with North American friends, engagement to my future wife, and poor housing during a cold winter all led me to change fields and transfer to the University of Waterloo, Canada. I completed a PhD in biochemistry in spring 1967. A pathologist at Case Western Reserve University in Cleveland then recruited me for a research opening. A core condition of me coming to Canada was an agreement not to work in North America for at least one year following completion of my degree. With another agreement from Cleveland to hold my job-offer for a year, I set off with my young wife for a year's travel through Europe, Asia and Africa. One noteworthy event occurred at the medical school in Esfahan, Iran. I attended a lecture given by Samuel Rahbar, who presented evidence supporting his hypothesis that increased Hemoglobin A1c occurs with diabetes. We completed our travels with a freighter trip from Bremen Germany to New York, April 1969.

**Johnson-Davis:** Tell me about your career progression. How did mentorship influence your professional career? How did you get involved with the Association?

**Hamlin:** I began research with Robert Kohn, M.D., working with age changes and connective tissue, funded by limited grant money. Bob Kohn and I became close friends. I looked for more permanent funding following the birth of my daughter, and with Bob's help, I started as an assistant chemist in the hospital laboratory, November 1970. I found myself, with not much notice September 1971 to be in charge, following the Director's departure. The head of medicine, following consultation and at his suggestion, corrected my knowledge deficit by having me round with residents early each morning for one year. I followed this with three months each in Obstetrics and Pediatrics. The hospital administration desired consolidation of satellite laboratories and extension of service to 24 hours each day from 5 1/2 8-hour-days weekly. I accomplished this over the next five years with the introduction of many immuno-assays, high-



Dr. Clive Hamlin

risk obstetric tests, special pediatric procedures and medical toxicology. My teaching responsibilities with residents, medical students and medical technologists also increased. 1983 saw significant change with the elimination of professional charging for most of clinical pathology and the elimination of hospital dual-pricing for laboratory-tests. I then helped to establish and became the Director of an out-patient laboratory owned by the pathology practice but with hospital approval. This became a profitable full-service operation, funding faculty and resident positions, and covered much of northern Ohio. In 1985, I was asked by hospital administration to help the laboratory of a free-standing facility with over 175 practicing physicians, and soon became Director of that laboratory too. During this time, I came to know Joe Knight and Jim Wu who were dealing with similar issues at ARUP. They introduced me to the Association.

**Johnson-Davis:** What unexpected turns did you have in your career?

**Hamlin:** A new hospital administration arrived with altered priorities, and I lost most of my hospital professional responsibilities effective November 1995. I then became involved with the academic side of the department, concentrating on graduate education. About that time, a ten-year episode of bovine encephalopathy (mad cow disease) was followed by a report of an unusual, probably linked, prion disease in humans. The United States, decided to begin human prion testing under the leadership of Pierluigi Gambetti, M.D. who was then one of two leading

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# Association of Clinical Scientists Minutes

## Annual Membership Business Meeting

### Houston, Texas, May 19, 2018

1. The meeting was opened at 12:15 pm CDT by President Dr. Robert Hardy.
2. Also present were Drs. Roger Bertholf, Fouad Boctor, Joshua Bornhorst, Robert Brown, Mary Coolbaugh-Murphy, Philip Foulis, Clive Hamlin, Shuko Harada, Charles Hawker, John Hicks, Jonathan Hoyne, Peter Hu, Robert Hunter, Awdhesh Kalia, Kyle Kurek, Stephen Roper, Consolato Sergi, Gene Siegal, Alex Tatevian, Nina Tatevian, Roland Valdes, and Myra Wilkerson. Per the Association's Constitution and Bylaws this constituted a quorum.
3. The minutes of the May 20, 2017 Business Meeting of the members, submitted by Dr. Donaldson, were unanimously approved after a motion by Dr. Hawker and a second by Dr. Hunter.
4. Dr. Bornhorst presented a Treasurer's Report showing total funds of \$388,576.04, as of May 7, 2018, including \$91,830.62 in checking and \$296,645.42 in the Investment Account. He commented that, although the Annual Meeting expenses have yet to be paid, the Association's finances are looking very good. Dr. Bornhorst attributed our excellent finances to the growth of our investment funds, Dr. Tatevian's adept handling of journal expenses, and the switch several years ago of our credit card billing from Bank of America to PayPal.
5. *Scientific Sections.* Dr. Hunter reported that the scientific sections will be evolving into greater involvement as sections of the journal with section members serving as editors and reviewers. He said that Dr. Kurek would provide more information.
6. *Annals of Clinical & Laboratory Science.* Dr. Tatevian reported that annual submitted manuscripts have risen from 150 in 2012 to 347 in 2017. The number of manuscripts accepted and published grew from 59 to 121 over that same span of years, so we are also more selective. In 2012 we were publishing 15 papers per each of four issues, but today we are publishing 20 papers in each of six issues. The leading countries with submissions are China, USA, Korea, India, and Turkey. The journal's margin has changed from a negative >\$20K to a positive >\$20K.

Dr. Tatevian then asked Dr. Kurek, Senior Associate Editor, to discuss the reorganization of the Editorial Board. Dr. Kurek said that



The MD Anderson Cancer Center, Houston, Texas, was the site for the 138th annual meeting held May, 2018

presently we have approximately 100 editors for annual totals of only 350 submitted manuscripts and 120 published papers, which is much too high a ratio, so the number of editors will be culled. The Chairs of the Scientific Sections would be appointed as Associate Editors of sections of the journal corresponding to the scientific sections. These Associate Editors will assign manuscripts to members of the scientific sections to serve as reviewers.

7. *Proposed Amendments to Constitution and Bylaws.* Dr. Hawker, Chair of the Constitution and Bylaws Committee, led the discussion of the proposed amendments, which had been posted on the website and announced by broadcast email on April 13, 2018, and printed copies of which were provided to meeting attendees. Dr. Hawker explained the Executive Committee's logic and the arguments for and against for the following proposed changes:
  - Increasing the number of voting members of the Executive Committee from 10 to 11.
  - Adding a new office of President Elect, creating a succession of one-year terms as Vice President, President Elect, and President in that order.
  - Eliminating the three-year terms on the Executive Committee for Past Presidents, leaving just one Past President on the Executive Committee for one year. Past Presidents, however, will serve on a new Past Presidents Council chaired by the President.
  - Creating two new elected positions as Members of the Executive Committee with staggered two-year terms, one being elected each year. This year we would elect one for a one-year term and one for a two-year term.

Dr. Hardy called for a vote on these proposed amendments and they were passed unanimously

8. *Nominations Committee.* Dr. Foulis presented the Nominations Committee's slate for the annual election which is based on the just approved amendments to the Constitution and Bylaws: Dr. Robert Hardy would serve a second year as President, Vice President Dr. John Hicks would serve in the new President Elect position, and Dr. Keri Donaldson would serve as Vice President, all for one-year terms, Dr. Tyler Yin would serve as Secretary for three years, Dr. Consolato Sergi would serve as a Member of the Executive Committee for two years, and Dr. Stephen Roper would serve as a Member of the Executive Committee for one year. Dr. Hardy asked if there were any nominations from the floor. Dr. Wilkerson moved and Dr. Hunter seconded that nominations be closed. The members unanimously approved the slate of nominees.

9. *Awards Committee.* Dr. Myra Wilkerson reported on the following 2019 awards, but mentioned that the Young Clinical Scientist awardee will be selected after the afternoon session. She announced that Dr. Joshua Bornhorst was chosen as the Clinical Scientist of the Year, Dr. John Hicks will receive the F.W. Sunderman Jr. Diploma of Honor, and Dr. Clive Hamlin will receive the Gold Headed Cane. [Parenthetical note – at the start of the Musicale, Dr. Wilkerson announced that the Young Clinical Scientist award would be Dr. Devin Broadwater.]

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# Clive Hamlin

*continued from page 8*

prion experts in the country. Pierluigi asked me to set up the testing laboratory and provided me much needed instruction on the details of prion pathology. After a lapse of three years, the hospital asked me to return to pathology resident teaching, following poor board performance in chemistry. These activities kept me busy until then end of 2017 when I retired from clinical practice. Now, I continue with the pathology graduate-student program, and teach pathology residents and medical students. I hope too, to continue my relationship with the Association and its members, with whom I have had many worthwhile interactions.

**Johnson-Davis:** What advice would you give to someone starting out in their career in clinical chemistry/laboratory medicine?

**Hamlin:** I can suggest six major topics where I can give advice: (1) Make sure you are accessible. When in your office, keep the door open as much as possible. Respond quickly to all concerns and complaints. (2) Do what you can to become known. Mingle with your clinical colleagues. Attend clinical case presentations and participate in discussion relating to the laboratory component. Get to know others within your profession who are at nearby institutions. Attend local and national meetings. (3) Establish a good reputation. Make sure you follow through on every commitment. Try to make your boss look good. Do not be afraid to admit you have an incomplete understanding of a subject, but take steps to rectify it. Never hide mistakes (we all make some) and learn from the experience. (4) Document all important matters. If you reach a verbal agreement with a second party, follow up with a written outline, with all essential points, and request that party to agree. (5) Unexpected opportunities. Take risks, after careful consideration; move out of your comfort zone. (6) Pleasure. Set aside some time each week to enjoy activities outside of your profession

## Newsletter Trivia Question

The first person to email the correct answer will have their name mentioned in the following newsletter and the satisfaction of knowing they won. Please respond to, or if you have a trivia question you would like to submit, please email to Stephen M. Roper at: [smroper@wustl.edu](mailto:smroper@wustl.edu).

**PREVIOUS QUESTION** no question submitted

**CURRENT QUESTION**

In chromatography, band broadening is a phenomenon which can cause problems resolving compounds that elute at similar retention times. Plate number (N) is a quantitative measure of column efficiency related to the observed peaks' width. The higher the value for N, the better the column efficiency. Alternatively, height equivalent of a theoretical plate (HETP) can be calculated to determine the length of column required to obtain one plate. The lower the value for HETP, the better the column efficiency. In addition to these, what other equation can be used to account for factors such as linear velocity, eddy diffusion, longitudinal diffusion, and mobile/stationary phase mass transfer, that will affect chromatographic efficiency?

**ANSWER** to appear in the next *Clinical Science Trumpet*

Submit your answer by email to Stephen M. Roper at: [smroper@wustl.edu](mailto:smroper@wustl.edu).

## Meeting Minutes...

*continued from page 9*

### 10. Annual Meetings.

- Hershey, 2019. Dr. Wilkerson, Program Committee Co-Chair, reported that the meeting will be held at the Hotel Hershey, May 16-19, 2019. Several topics are under consideration as themes including toxicology and the opioid crisis, molecular diagnostics, and autism. The cultural tour might be either the new Civil War Museum in Harrisburg or Gettysburg National Park.
- Banff, 2020. Dr. Kurek reported that the meeting will be in late June of 2020, with the dates and hotel to be determined soon. The theme will be histocompatibility and transplantation. The Friday cultural tour would be to Lake Louise and nearby sightseeing.

### 11. President's Remarks.

Dr. Hardy gave an overview of the Association's progress during the past year. He noted the growth of our membership and the journal, the restructuring of the Executive Committee, our outstanding meeting program, and Dr. Yin's success for the Young Fellows Section in getting advertisements for the Association on Google and exploring the use of YouTube videos linked through our website.

Dr. Hardy thanked Drs. Hu and Kurek for their service to the Executive Committee, Dr. Hawker for his work as Executive Director, and Drs. Bornhorst and Hunter who initiated the discussions that resulted in the amendment to the Constitution and Bylaws on Executive Committee restructuring.

### 12. New Business.

Dr. Boctor thanked Dr. Tatevian for opening the journal up to China and other countries. Dr. Bornhorst noted that the journal is indexed by Pub Med. Dr. Boctor also noted that Google now cites our journal.

### 13. Following a motion by Dr. Hawker and a second by Dr. Valdes, the meeting was adjourned at 1:14 pm CDT.

Respectfully submitted,

*Charles D. Hawker*

Charles D. Hawker, Ph.D.  
Secretary (substitute)

**Meeting Ballroom at Houston Marriott Medical Center, Houston, TX,  
site for the 138th annual Meeting held May, 2018**



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Department of Cardiology  
Allegheny Health Network, Pittsburgh, PA

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Assistant Professor, Depts. of Pathology and Immunology  
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**Keyur Patel, M.D., Ph.D. \***  
Associate Professor, Department of Hematopathology  
MD Anderson Cancer Center, Houston, TX

\* denotes recipient of Association fellowship

## Individual Annual Donors to ACS

The Association of Clinical Scientists gratefully expresses its appreciation and gratitude to the following members for their support of the Association in the 2016-2017 fiscal year. A total of \$2475 was contributed, significantly advancing the Association's programs.

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## Clinical Science Trumpet

Newsletter of the Association of Clinical Scientists

The Clinical Science Trumpet Newsletter is the official newsletter of the Association of Clinical Scientists and is published three times per year. Back issues may be viewed at <http://clinicalscience.org/news.html>

Announcements, commentaries, and news/photos of members are welcome. Please send to the Editor at: kamisha.davis@hsc.utah.edu

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# Don't miss a sweet time in Hershey, PA, May 15-18, 2019



Hershey, Pennsylvania, is most famous for the chocolate empire established by Milton Hershey. Hershey's Kisses—perhaps its most famous candy—were introduced in 1907 and have maintained their iconic shape since! Milton Hershey named the first two streets in Hershey "Chocolate Avenue" and "Cocoa Avenue" to form the town square. Many other streets in Hershey were named relating to chocolate by Mr. Hershey.

Chocolate Avenue is known for its Hershey's Kisses-shaped—and unique—street lamps. Manufactured in 1963 using a process called aluminum metal spinning, they were designed by engineers with the Line Material Company. Some of the lamps are designed as wrapped kisses, while others are designed as unwrapped kisses.



**Association of Clinical Scientists**  
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