



Clinical Science Trumpet

Newsletter of the Association of Clinical Scientists

Charles D. Hawker, PhD, MBA, FACB, FACSc, Editor

Vol 37, No 2—April 2017

Final Program for the Association's Annual Meeting: Birmingham, Alabama

May 17-20, 2017

Grand Bohemian Hotel, Birmingham, Alabama

The 137th Meeting of the Association of Clinical Scientists will be held in Birmingham, Alabama, on May 17th through 20th, 2017. It is being hosted by the Department of Pathology, University of Alabama at Birmingham, School of Medicine. The meeting theme will be **Disruptive Innovations in Healthcare**. The Program Co-Chairpersons, Drs. Gene Siegal and Robert Hardy, cordially invite you to plan to attend another outstanding Association meeting.

The Claude P. Brown Memorial Lecture will be presented by **X. Long Zheng, M.D., Ph.D.**, Robert B. Adams Endowed Professor and Director of Division of Laboratory Medicine, Department of Pathology, University of Alabama at Birmingham with a talk entitled *New Treatments for Thrombotic Thrombocytopenic Purpura*.



Click photo to learn more about Dr. Zheng

Dr. X. Long Zheng

FRIDAY RECEPTION AND BANQUET

The Association's annual reception and banquet will be held on Friday evening and will include a presentation of the Association's annual awards. The banquet speaker will be **James B. McClintock, PhD**, Endowed University Professor of Polar and Marine Biology at the University of Alabama at Birmingham. He will present *From Penguins to Plankton—The Dramatic Impacts of Climate Change on the Antarctic Peninsula*.



click photo to learn more

James B. McClintock, PhD, at Palmer Station, Antarctica

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2016-2017 ACS Committees

Click text above to jump to that page. Also, click any **interactive text** or **green text** on each page.

Hotel Accommodations

THE HOTEL

The hotel for the Association's 137th Meeting is the [Grand Bohemian Hotel](#), 2655 Lane Park Road, Birmingham, AL, 35223.

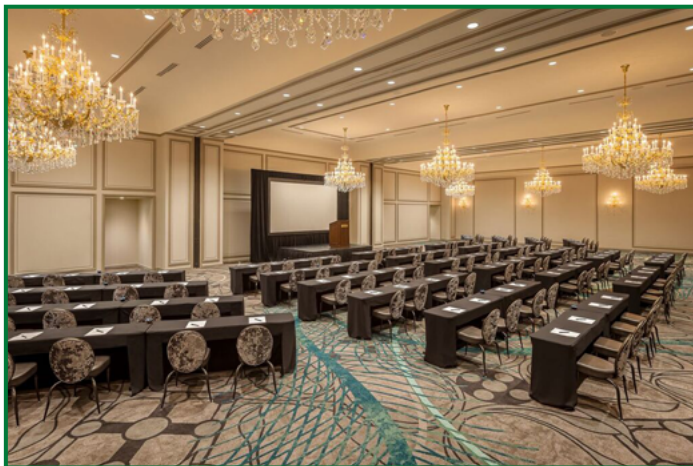
Ideally located in the city's Lane Parke development, this boutique hotel boasts custom decor, an on-site Grand Bohemian Gallery, signature [Poseidon Spa](#), wine blending and cooking school experiences, vibrant rooftop restaurant and so much more.

The Association's contracted room rate for the 137th Meeting is \$209.00 standard King or two Queens (plus 14% taxes). The deadline for Association's rates on room reservations is April 17. Guests will be able to reserve king or double rooms at the same room rate based on availability, however, they have far more king rooms than doubles at the hotel so anyone wanting to secure a double room will need to call well in advance to guarantee this room type.

The phone number is (205) 414-0505 and the website is

<http://www.grandbohemianmountainbrook.com/>

Be sure to mention the Association of Clinical Scientists meeting when making reservations.



A meeting room at the Grand Bohemian Hotel



Downtown Birmingham, Alabama

The hotel is located in the Birmingham suburb of Mountain Brook, offering convenient access to notable attractions; it is adjacent to the [Birmingham Botanical Gardens](#) and close to the [Birmingham Zoo](#).

TRANSPORTATION

The Grand Bohemian is 9.4 miles (approximately 15 minutes) from the Birmingham-Shuttlesworth airport (BHM). Cab fare to the hotel is approximately \$30.00. Contact the hotel for further information. 🚗



The Grand Bohemian Hotel

Association of Clinical Scientists 2017 Annual Meeting Final Program*

137th Meeting of the Association of Clinical Scientists, Birmingham, Alabama, May 17-20, 2017

Themes: “Disruptive Innovations in Clinical and Anatomic Pathology”
“Advancing the Role of Laboratory Medicine in Preventing Diagnostic Error”

Headquarters: Grand Bohemian Hotel, Mountain Brook, Alabama

Host: Department of Pathology, University of Alabama at Birmingham

CME Sponsor: American Society for Clinical Pathology

* program subject to
change; exact schedule in
Conference Program

CME Accreditation Statement

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of American Society for Clinical Pathology (ASCP) and Association of Clinical Scientists (ACS). The ASCP is accredited by the ACCME to provide continuing medical education for physicians.

Credit Designation Statement

The ASCP designates this live activity for a maximum of 19.5 AMA PRA Category 1 Credit(s)[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity

For PDF users, click the **green bold-face text** of a presenter's name to link to additional information.

Wednesday, May 17, 2017

- 3:00 p.m. Executive Committee meeting (Gallery 2)
- 5:00 p.m. Awards Committee meeting (Gallery 2)
- 5:30 p.m. Nominating Committee meeting (Gallery 2)
- 6:00 p.m. Editorial Board meeting (Gallery 2)
- 6:00 p.m. Musicales Rehearsal (Ballroom pre-function)

Thursday, May 18, 2017

- 7:00 a.m. Membership and Mentoring Committee breakfast (Gallery 2)
- 7:00 a.m. Breakfast (back of Ballroom MB 1)

Session A: Disruptive Innovations in Clinical and Anatomic Pathology (Ballroom MB1)

Chair: Frederick Kiechle

- 8:00 a.m. Welcome: **Philip R. Foulis** (President of the Association), **George Netto** (Chair, UAB Dept. of Pathology) and **Robert Hardy** (Vice President of the Association)
- 8:15 a.m. **[1] Claude P. Brown Memorial Lecture: Long Zheng**, Birmingham, AL: *Novel Therapeutics for Thrombotic Thrombocytopenic Purpura*
- 9:00 a.m. **[2] Frederick Kiechle**, Cooper City, FL: *Overview of Disruptive Technologies in Clinical Pathology*
- 9:45 a.m. **[3] George Netto**, Birmingham, AL: *A Bullish Outlook on the Future of Anatomic Pathology in the Era of Precision Medicine*
- 10:15 a.m. Break: Refreshments (Ballroom pre-function)
- 10:30 a.m. **[4] Allen Bryan**, Birmingham, AL: *Infectalytics: App-Driven Holistic Big Data Quality Improvement for Laboratories*
- 11:00 a.m. **[5] Rachel Beck**, Birmingham, AL: *A Mass Spectrometry Takeover? Reasons to Replace Immunoassays Testing*
- 11:30 a.m. **Adjournment of Session A**

Session B: Luncheon (Private Dining Room, 3rd Floor)

11:30 a.m. **[6] Tim Townes**, Birmingham, AL: *Modified CRISPR/Cas for Safe, Effective and Economical Correction of the Sickle Mutation*

12:30 p.m. **Adjournment of Session B**

Session C: Advancing the Role of Laboratory Medicine in Preventing Diagnostic Error (Ballroom MB1)

Chair: Philip R. Foulis

- 12:35 p.m. **[7] Eta Berner**, Birmingham, AL: *Overview of Diagnostic Error in Medicine*
- 1:20 p.m. **[8] Philip R. Foulis**, Tampa, FL: *ACS and Its Contribution Nationally to Diagnostic Error Prevention*
- 1:35 p.m. **[9] Myra Wilkinson**, Danville, PA: *Practical Ways to Reduce Diagnostic Error: Anatomic Pathology*
- 2:05 p.m. **[10] Mike Laposata**, Galveston, TX: *Practical Ways to Reduce Diagnostic Error: Clinical Pathology*
- 2:35 p.m. **[11] Joseph Drwiega**, Philadelphia, PA: *Improving Communication in Pathology and Laboratory Medicine*
- 3:10 p.m. **[12] Marisa Marques**, Birmingham, AL: *Education Initiatives to Decrease Diagnostic Errors*
- 3:40 p.m. **[13] Semyon Risin/Robert Hunter**, Houston, TX: *Consultative-algorithmic Workups for Rheumatologic Conditions to Improve Management and Reduce Diagnostic Errors*
- 4:10 p.m. **[14] Michelle Brown**, Birmingham, AL: *Decreasing Diagnostic Error Using Interprofessional Simulation: A Collaborative Effort to Improve Teamwork and Communication*
- 4:40 p.m. **[15] Charles D. Hawker**, Salt Lake City, UT: *Automation and Process Improvement Enable Six Sigma Non-Analytic Quality*
- 5:00 p.m. **Adjournment of Session C**

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Evening

- 6:00–8:00 p.m. Welcome Reception, light hors d'oeuvres, beer/wine (Art Gallery and Garden)
- 8:00 p.m. Young Fellows Get-Together (open) (location TBA)—all young scientists (\leq age 45 years) are invited to this event

Friday, May 19, 2017**University of Alabama-Birmingham (UAB)**

- 7:00 a.m. Bus departs Hotel for UAB from hotel lobby (please arrive early)
- 7:30 a.m. Breakfast at UAB, WPCC E

Session D: Session at University of Alabama at Birmingham

- 8:00 a.m. Introductions: Directors of AP and LM (WPCC E)
- 8:15 a.m. **[16] Shuko Harada**, Birmingham, AL: *Organizing and Running a Molecular Tumor Board – a Two-Year Experience at UAB*
- 8:45 a.m. **[17] Silvio Litovsky**, Birmingham, AL: *All Atherosclerotic Plaques Are Not Created Equal*
- 9:15 a.m. **[18] Anath Shaley**, Birmingham, AL: *Novel approaches to diabetes therapy – targeting TXNIP*
- 10:00 a.m. Tours of **UAB Pathology** facilities, 45 minutes per tour, simultaneous tours AP and CP switching at 10:45 am in WPCC E.
AP Tour Guide: Janie Roberson, Interim Manager, Laboratory Quality, UAB Medicine/Hospital Labs.
CP Tour Guide: Donna Scott, Manager-Laboratory Services
- 11:30 a.m. Bus departs for Hotel

Lunch on own at Hotel or several options in the Village**Tours: Short stop at Vulcan Park, Civil Rights Institute, 16th Street Baptist Church and Kelly Ingram Park (optional event—free event)**

- 1:30 p.m. Bus departs Hotel for afternoon
- 1:30 p.m. Bus Tour of Birmingham:
 - short stop at **Vulcan Park**
 - **Civil Rights Institute**
 - **16th Street Baptist Church and Kelly Ingram Park**
- 4:30 p.m. Bus returns to Hotel

Evening: Annual Reception and Banquet (Ballroom MB1)

- 6:00 p.m. Cocktail Reception: Ballroom pre-function & Lawn
- 7:00 p.m. Awards Banquet and Presentations (Ballroom MB1)
Toastmaster: **Philip R. Foulis**, Tampa, FL
Young Clinical Scientist Award presented to **Lindsay N. Strotman, Ph.D.**, University of Louisville and PGXL Technologies, Louisville, KY
F.W. Sunderman Jr. Diploma of Honor presented to **Myra L. Wilkerson, M.D.**, Geisinger Health System, Danville, PA
Clinical Scientist of the Year Award presented to **John Hicks, M.D., D.D.S., Ph.D.**, Texas Children's Hospital and Baylor College of Medicine, Houston, TX
Banquet address:
Dr. James B. McClintock, Birmingham, AL: *From Penguins to Plankton—The Dramatic Impacts of Climate Change on the Antarctic Peninsula*

Saturday, May 20, 2017

- 6:30 a.m. Run for the Lilies—meet in hotel lobby (contact Josh Bornhorst)
- 7:15 a.m. Breakfast (Ballroom pre-function)

**Session E: Anatomic Pathology Track (Ballroom MB1)
Session E is concurrent with Session F**

Chairs: Shuko Harada and Tiffany Graham

- 8:00 a.m. **[19] Tiffany Graham**, Birmingham, AL: *Characteristics of Small Renal Cell Carcinoma (\leq 4 cm) Upstaged to pT3 on Final Pathology*
- 8:20 a.m. **[20] Alexander Feldman**, Birmingham, AL: *Metastatic Tumors to the Bladder: Avoiding the Diagnostic Pitfalls*
- 8:40 a.m. **[21] John Hicks**, Houston, TX: *Ameloblastic Fibrosarcoma—A Rare Entity: Case Presentation and Clinicopathologic Review*
- 9:00 a.m. **[22] Robert L. Hunter**, Houston, TX: *Bronchogenic Tuberculosis—The Missing Link Between Primary and Post-Primary Disease*
- 9:20 a.m. **[23] Khaldi Ibrahim**, Louisville, KY: *Facilitating Precision Cancer Treatment with a Fully-Integrated, Patient-Centered Pathology Report*

For PDF users, click the **green bold-face text** of a presenter's name to link to additional information.

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- 9:40 a.m. [24] **John Hicks**, Houston, TX: *BCOR Internal Tandem Duplication Undifferentiated Round Cell Sarcoma of Infancy: Case Report and Review*
- 10:00 a.m. Break: Refreshments (Ballroom pre-function)

Session E continued: Anatomic Pathology Track (Ballroom MB1)

Chairs: Jennifer Gordetsky and Rance C. Siniard

- 10:15 a.m. [25] **Lori M. Millner**, Louisville, KY: *A Liquid Biopsy for IDH1 Mutation Detection in Gliomas*
- 10:35 a.m. [26] **Rance C. Siniard**, Birmingham, AL: *Improved DNA Quality by Punch from Tissue Block as Compared to Pinpoint Extraction from Unstained Slides of Formalin-Fixed Paraffin-Embedded (FFPE) Tissue*
- 10:55 a.m. [27] **Consolato Sergi**, Edmonton, Canada: *Mapping the Practice To Systematically Review The Medical Literature: Challenges of the Mimickers of the Gluten-sensitive Enteropathy (GSE) and Proposal of a Synoptic Protocol for GSE*
- 11:15 a.m. [28] **Amanda Tchakarov**, Houston, TX: *Abnormal Placental Trophoblast Proliferation: A Case Presentation and Review of the Literature*
- 11:35 a.m. [29] **John Hicks**, Houston, TX: *Pediatric Small Round Cell Tumors: Update on the Role of Molecular Genetics*
- 11:55 a.m. **Adjournment of Session E**

Session F: Clinical Pathology Track 1 (Ballroom MB2)

Chairs: Huy P. Pham and Sierra Simmons

- 8:00 a.m. [30] **Alae A. Yaseen**, Louisville, KY: *Novel Blood-based Biomarkers in Identification of Traumatic Brain Injuries: Are they useful?*
- 8:20 a.m. [31] **Chris Crutchfield**, Cincinnati, OH: *The Three Pillars of Quality: External QC, Moving Averages, and Autoverification*
- 8:40 a.m. [32] **Fan Shen**, Edmonton, Canada: *Digging into the Nuclear Acids Modifications in Type 2 Diabetes Mellitus (T2DM)*
- 9:00 a.m. [33] **Erik A. Korte**, Louisville, KY: *Rapid Turn-Around Time of ADAMTS13 Activity Reduces Unnecessary Plasmapheresis in Suspected Thrombotic Thrombocytopenic Purpura*

- 9:20 a.m. [34] **Lucy Zheng**, Birmingham, AL: *FRETs-VWF73 Assay for Diagnosing and Monitoring Patients with Acquired Thrombotic Thrombocytopenic Purpura*

- 9:40 a.m. [35] **Sierra C. Simmons**, Birmingham, AL: *A Challenging Rat Poisoning Diagnosis*
- 10:00 a.m. Break: Refreshments (Ballroom pre-function)

Session F continued: Clinical Pathology Track 1 (Ballroom MB2)

Chairs: Lance Williams and Jenny McDaniel

- 10:15 a.m. [36] **Balu K. Chacko**, Birmingham, AL: *Integrated Assessment of Cellular Bioenergetics in Platelets for Precision Medicine*
- 10:35 a.m. [37] **Jingzhi Li**, Birmingham, AL: *Purification of Plasma von Willebrand Factor by a Novel VWF Aptamer-Affinity Chromatography*
- 10:55 a.m. [38] **Jenny K. McDaniel**, Birmingham, AL: *Plasma ADAMTS13 Activity Associates with Injury Severity in Pediatric Trauma Patients*
- 11:15 a.m. [39] **Mohammad S. Abdelgawwad**, Birmingham, AL: *Human Platelet-Derived Recombinant ADAMTS13 is Efficacious in Inhibiting Arterial Thrombosis Under Flow*
- 11:35 a.m. [40] **Liang Zheng**, Birmingham, AL: *A Zebrafish Model of Thrombotic Thrombocytopenic Purpura*
- 11:55 a.m. **Adjournment of Session F**

Session G: Luncheon (Private Dining Room 3rd Floor)

- 12:00 p.m. [41] **Victor Darley-USmar**, Birmingham, AL: *The Bioenergetic Health Concept and its Clinical Measurement*
- 1:00 p.m. **Adjournment of Session G**

Session H: Clinical Pathology Track 2 (Ballroom MB1)

Chairs: Allen Bryan and Joseph Drwiega

- 1:05 p.m. [42] **Catherine B. Zander**, Birmingham, AL: *Allosteric Interactions Between the Distal and the Proximal Domains of Human ADAMTS13 Revealed by Hydrogen Exchange Mass Spectrometry*

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- 1:25 p.m. **[43] Frederick L. Kiechle**, Cooper City, FL: *Patient Safety and Point-of-Care Testing*
- 1:45 p.m. **[44] Amadeo Pesce**, San Diego, CA: *Unexpected High Urinary Concentrations of 6-Acetyl Morphine*
- 2:05 p.m. **[45] David Cardamone**, Hummelstown, PA: *Tapentadol: Potential for Cross-reactivity with Methadone During Toxicology Screening*
- 2:25 p.m. **[46] DeLu (Tyler) Yin**, Louisville, KY: *A New Role for UCN3 as a Biomarker for PTSD in Adults*
- 2:45 p.m. Break: Refreshments (Ballroom pre-function)

Session H continued: Clinical Pathology Track 3 (Ballroom MB1)

Chairs: Rachel Beck and Alex Feldman

- 3:00 p.m. **[47] George T. Carlton**, Tampa, FL: *Standardization of Pathology Reports: Decreasing Interpretive Diagnostic Error*
- 3:20 p.m. **[48] David Cardamone**, Hummelstown, PA: *Demographic Analysis of Urine Drug Screens from Centers in NJ, Central PA and MI*
- 3:40 p.m. **[49] Barbara H. Sanford**, Tampa, FL: *Laboratory Medicine and Diagnostic Error: A Clinician's Perspective*
- 4:00 p.m. **[50] Sierra C. Simmons**, Birmingham, AL: *A Rare Lifesaving Indication for Plasma Transfusion*
- 4:20 p.m. **[51] Ronald Faight**, Little Rock, AR: *Repeated Simultaneous Failure of Hematology Analyzers using a Single Operating Control System*
- 4:40 p.m. **[52] Alexander Shtabsky**, Tel Aviv, Israel: *Microtubule-Associated Protein 2 Expression in Thyroid Lesions*

5:00 p.m. **Adjournment of Session H**

5:10 p.m. **Business Meeting of the Association (Ballroom MB1)** - Philip Foulis, President

Evening: Musicale and Art Show (Ballroom pre-function)

- 6:30 p.m. Wine and Hors d'oeuvres available
- 7:00 p.m. Musicale and Art Show; organized by Myra L. Wilkerson, Chair of the Committee on Music and Fine Arts

End of Program



Vulcan Park, Birmingham, Alabama



Civil Rights Institute, Birmingham, Alabama



"The Four Spirits" sculpture at historic Kelly Ingram Park

Association of Clinical Scientists

Registration for 137th Meeting, Birmingham, AL, May 17–20, 2017

*Preregistration
deadline: May 12*

ATTENDEE INFORMATION

Last Name	First Name	Initial	Degree(s)
Institution		Street Address	
City	State	Postal/Zip Code	Country
Telephone Number	Fax Number	Email Address	

	Unit Price	Number of Persons	Amount Charged
Regular Full Meeting Registration For all Fellows of the Association and non-members attending the full Meeting; includes one banquet ticket and continuing education credits, if desired.	\$535	_____	_____
Meeting Registration, Emeritus, Assoc. Fellows & Trainees For all Emeritus or Associate Fellows of the Association and all trainees, residents, and Fellows attending the full Meeting; includes one banquet ticket and CE credits, if desired.	\$275	_____	_____
Meeting Registration, Medical Techs and Undergraduate Students For Medical Technologists and undergraduate students; includes Meeting breaks and continuing education credits if desired	\$150	_____	_____
Meeting Registration, Complimentary For all speakers only attending the meeting for the day of their lecture; excludes CE, banquet and luncheon tickets	\$0	_____	_____
Single Day Registration For either Thursday or Saturday; includes luncheon and continuing education credits if desired	\$125	_____	_____
Single Day Registration, Medical Techs and Undergraduate Students For either Thursday or Saturday; includes Meeting breaks and continuing education credits if desired	\$75	_____	_____
Luncheon Seminar, Thursday, May 18 For all attendees with Regular Registration	\$40	_____	_____
Luncheon Seminar, Thursday, May 18 For Associate Fellows, Emeritus Fellows and trainees only	\$20	_____	_____
Friday Afternoon Tour, Friday, May 19 , as described in program For all attendees with Regular Registration, all Emeritus Fellows, spouses/family members, Associate Fellows, trainees and their spouses (please indicate your attendance; limited seats, availability only on first-come basis)	\$0	_____	_____
Extra Banquet Tickets, Friday, May 19	\$95	_____	_____
Luncheon Seminar, Saturday, May 20 For all attendees with Regular Registration	\$40	_____	_____
Luncheon Seminar, Saturday, May 20 For Associate Fellows, Emeritus Fellows and trainees only	\$20	_____	_____
Musicale, with Wine and Cheese Intermission Complimentary for all attendees, please indicate attendance for headcount estimation	\$0	_____	_____

Total Payment Enclosed

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Association of Clinical Scientists

Registration for 137th Meeting, Birmingham, AL, May 17–20, 2017

PAYMENT OPTIONS

Cancellation with full refund will be accepted until April 7, 2017. Deadline for preregistration is May 12, 2017.

1. Register securely on-line at <http://www.clinicalscience.org/annualmeeting.html#Registration>.
2. Complete and mail this form (copy/print both sides of form) with a check, payable to Association of Clinical Scientists, or with credit card information, to Association of Clinical Scientists, 6431 Fannin Street, MSB2.292, Houston, TX 77030
3. To charge using American Express, Visa, or MasterCard, call the ACS office at (713) 500-5381, Mon–Fri, 8:00 a.m.–5:00 p.m. Central Time. You may also fax this form with your credit card information to our secure Fax at (713) 500-0732.

CREDIT CARD INFORMATION

Credit card type
(check only one)

Visa

MasterCard

American Express

Card number

Security code (CVV)

Expiration date (mo/yr)

Name on the card

Billing Address

City

State (Province)

Country

Postal (Zip) Code

Signature



It's Back! Online Membership Directory

Change contact information, search for members, view dues information

The Association has not had a Membership Directory since we severed our relationship with ASCP. Now, however, thanks to the hard work of Dr. Robert Hunter and our Office Manager, Anara Baimetova, we are excited to announce our on-line Membership Directory which is linked to the Membership section of our website: www.clinicalscience.org.

You can access this database to change your contact information (or your spouse's) and your password, search for members and spouses by names, institution, city and state, or by committees and

scientific sections. You will be able to view your attendance at ACS meetings and dues information.

Each member will receive an individual email with a temporary password (the member's email address is the user ID).

If there are questions after you receive the email, call Anara Baimetova at (713) 500-5381 or email her at clinisci@sover.net.

Armand B. Glassman, M.D.: A renaissance man and emblematic member of the ACS

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.

By Eric Rosenbaum, M.D.

My phone interview with this gentleman reminded me of my first encounter with an ACS member at the Mobile, Alabama meeting in 2012. Though forty years of accomplishments separate Dr. Glassman and me, it was still, “Please call me Armand.” This gentleman personifies the cordial, collaborative, down-to-earth character of our Society. Though I could use this space to list Armand’s accomplishments, I discovered that the compelling story behind this man was his personal journey in life—a story that anything is possible. That is what I wish to share with the ACS membership.

Armand Glassman was born in Paterson, New Jersey. His father was a Russian immigrant and his mother a native of greater Chicago. At age seven, his parents divorced and he was raised by his mother. A strong woman she must have been, since it was she who first instilled in Armand that if he got an education he could be somebody one day. These words resonated with Armand since he described himself in his early education as “a pretty good high school student, the National Honors Society, you know, but I was also an all-state violinist and an all-state football player.” A humble response for one who played in the all-state orchestra and northern New Jersey Philharmonic. I commented that football and violin are not a typical combination in high school.

“I wore glasses; I looked like a nerd. I carried the violin case. I didn’t look or act like the other guys who thought they were tougher,” Armand responded.

Make no mistake though, Armand is tough. He finished high school mid-year and proved how tough he was entering active duty with the U.S. Marine Corps for 6 months in 1956. A scholar and athlete, Armand went on to Rutgers University to study Biology and Chemistry, quite an accomplishment from someone attending a underprivileged high school where only about 10% of the graduates went on to college.

A jack of all trades, Armand was a high school teacher for about a year during the interim between college and medical school. This was to be the most pivotal moment in his life.

“It’s interesting,” Armand recalls, “I was married before I finished college and my Yiddish grandpa said to me, ‘What will you be doing 10 years from now?’”

At the time, Armand was teaching and coaching high school football.

“So, my grandfather said to me,” continued Armand, “‘why don’t you go to medical school?’ and I said, ‘grandpa, I can’t afford it.’ I was married and I had one child, so my grandpa replied ‘I’ll pay for your medical school if you go.’ Well, I went and he paid for one semester, but I was already hooked.”

I asked Armand if he ever wondered if he would have taken another path in life if his grandfather had not had that conversation with him. Armand replied, “Yes, I would have been a college football coach.” Indeed, a pivotal moment in life.

So Armand went on to attend Georgetown University School of Medicine. He recalled an interesting experience working with a man called Dr. Mills who was operating a four-member emergency room at the Alexandria Hospital in Alexandria, Virginia—credited as being the first full-time emergency room in the United States. Armand got a feel for emergency medicine, and saw there was need for it—all before this field was even



Dr. Armand Glassman

recognized as a medical subspecialty. After graduating Georgetown magna cum laude, he continued to Yale for residency. While in Connecticut, he established his own emergency room with a group of residents at a small 80 bed hospital. This was to be the first emergency room in New England, located at Park City Hospital in Bridgeport, Connecticut.

“I really enjoyed emergency room medicine, but by that time I had three children and I thought that I better do something else. I liked pathology because it is so

broad in its interests and I thought that I could do this for the rest of my life and find various niches that would be of interest to me and that would capture my imagination and that maybe I could contribute, too,” said Armand.

He completed a residency in anatomic and clinical pathology at Yale while pioneering the emerging field of emergency medicine on the side.

As Armand’s career was taking off, the field of medicine was undergoing its own renaissance. I asked him what he felt were the most significant changes in the field of pathology and clinical laboratory medicine during his career. Armand listed molecular biology, molecular chemistry, and genetics—the molecular genetics laboratory being one of the most significant outcomes of the birth of the molecular era. He humbly recounted that our very own Peter Hu was one of his medical technologist students who progressed down the molecular pathway with his encouragement. Today, Dr. Hu is director of the Molecular Genetic Technology Program and Graduate Diagnostic Genetics Program at the MD Anderson Cancer Center.

Looking forward, I asked Armand what he saw as the biggest challenges facing pathology and clinical laboratory medicine. Armand reflected on our identity—are we physicians, are we doctoral scientists, are we just ancillary technical people?

“I think it’s a real problem,” said Armand.

His solution for this is “We have to be as active as possible. That is one of the reasons I pursued the subspecialty certification in blood banking, because there we could still see people, interview them, make decisions—maybe not life and death decisions, but we could still make decisions.” Another challenge Armand mentioned was that he sees a degree of fragmentation occurring in pathology and clinical laboratory medicine.

“There are some internists that even in private practice are laboratory directors. Can we identify what clinical laboratory science is per se or is there going to be fragmentation? And some of that will be determined by who gets paid, who gets the space, who gets the recognition,” said Armand.

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The Auxiliary

Hello Everyone,

It's an exciting time of the year again! Our annual conference in Birmingham, Alabama, is only a month away. Just like the previous conferences, we will have many exciting places to explore. I am honored to serve as President of the Auxiliary once again and I am looking forward to seeing all of you at the meeting!

As a tradition, let me briefly review the history of our organization. The Auxiliary to the Association of Clinical Scientists was formed over 35 years ago by Zimmie Davis, the wife of an early founding member. The goal was to provide an opportunity for spouses and accompanying persons of Association attendees to have a group of their own at the annual meeting. Their purpose was not only to help support the Association, but to plan activities, develop friendships and foster a sense of identity.

Last year, we had a lot of fun in Hot Springs, Arkansas. We visited gardens, toured the local historical places, and even experienced a traditional Hot Springs bathhouse. There are always new adventures waiting for us at each meeting.

This year, we have once again planned some exciting activities. With the help from Mrs. Becky Hunter and other members of the Auxiliary, I believe we are going to create new unforgettable memories.

Our schedule:

Wednesday, May 17, 2017

6:00 p.m. Reception in the Bar

Thursday, May 18, 2017

9:00 a.m. Birmingham Botanical Garden Tour
(2612 Lane Park Rd.)

12:00 p.m. Lunch inside the Garden restaurant or café

6:00 p.m. Association Evening Reception

Friday, May 19, 2017

8:30 a.m. Auxiliary yearly meeting and breakfast
(room number to be announced)

1:30 p.m. Association Tour

6:00 p.m. Banquet night

Saturday, May 20, 2017

10:00 a.m. Birmingham Museum of Art
(2000 Rev. Abraham Woods Jr. Blvd.)

7:00 p.m. Musicale

We like to think there are no strangers in our group, only friends we haven't met yet. I am looking forward to meeting each one of you!

Warmest regards,

Cynthia Hu
Auxiliary President 2017

*The Auxiliary visiting Garvan
Gardens in 2016.*



Armand B. Glassman, M.D. (continued)

Mentorship is an important part of the ACS. I asked Armand who influenced his professional life. He never forgot the general practitioner of his childhood who wrote his letter of recommendation for medical school—his first mentor. Armand also mentioned the late Averill A. Liebow, internationally recognized pulmonary pathologist. Dr. David Seligson, former Chief of Laboratory Medicine at Yale, was also an important mentor. And in medical school, Armand credits Dr. Melvin Blecher, a biochemist who was important to him not in that he taught Armand chemical analysis, but this man taught him the scientific method. And, of course, Dr. William Sunderman, Sr., who Armand describes as being a very paternal figure in his life after he joined the ACS.

Forty years later, Armand is still a part of the ACS, most recently attending the Amelia Island meeting in 2014.

"The ACS as offered me opportunities for exposure to the diversity in clinical laboratory medicine, friendships with outstanding colleagues, opportunities to visit institutions that are keeping laboratory medicine at the forefront of healthcare delivery, and the opportunity to mentor and be mentored," said Armand.

"The ACS also offers opportunities to move immediately into the operations of the organization; one is not excluded. These societies are rare and this is a reflection of the people that choose to be in our field. I mean, other people are nice too, don't get me wrong, but I think that we are interested in learning, we are interested in sharing. We're not necessarily sharing because we want to inculcate an ideology in somebody else. We're interested in sharing to determine whether we're on the right path or not," Armand added.

Today, Armand lives in Kiawah Island, South Carolina where he is Professor Emeritus of Microbiology and Immunology at the Medical University of South Carolina (MUSC) in nearby Charleston. He continues to mentor and teach medical and graduate students. He also holds memberships on the institutional biosafety committee and the MUSC Hollings Cancer Center Citizens Advisory Council. Armand will have been married to his wife, Alberta, for 59 years in August 2017.

"I'm quite proud of that. My wife is extremely tolerant," said Armand.

The couple have 3 sons, all of whom have established distinguished careers for themselves, continuing the Glassman legacy of prioritizing education. Armand and Alberta have 8 grandchildren, two already graduates of the University of Georgia. The couple play tennis, recently ranking second in the South in mixed doubles for their age group. He remains tough, doing all this despite a diagnosis of Parkinson's disease in 2013. Armand is frank about this, "People have to be mature in their approach to things. One ages, and part of the aging process is maybe taking on some disease processes."

Despite this diagnosis, he gets up daily with the desire to contribute, as admirably described in his own words.

Armand left me with three bits of advice for young people interested in entering the field of pathology and clinical laboratory medicine. First is to learn as much as you can. The second is to maintain an interest in lifetime learning. And the third is to avoid getting solidified in a single technology or aspect of whatever science you are interested because it will continue to evolve and change as you move forward.

These valuable pearls come from a man possibly best summarized by one of his fellow Rutgers alumni, "Armand, a true renaissance man with a lifetime of distinguished achievement in all of his endeavors, left Yale in 1969 to begin a stellar forty-year medical career as a researcher, physician, professor of medicine, and administrator at five different medical schools." ❖❖

President's Corner

Dear ACS Members,

ANNUAL MEETING

I hope you will be attending our upcoming meeting in Birmingham, Alabama, May 17-20, 2017. Dr. Rob Hardy, as Program Co-Chair, has assembled an exciting program. The tour on Friday afternoon is of historical significance. As one of his last acts as president, Barack Obama signed on January 12, 2017, a proclamation designating the Birmingham Civil Rights District a national monument. This will be a very informative and enlightening tour. Please see the segment of the Trumpet that describes the program in more depth.



Philip Foulis

EXECUTIVE COMMITTEE MEETING

During the annual business meeting, we will be proposing some amendments to the bylaws regarding the Young Fellows section and the permanent appointment of the Chair of the Young Fellows Section Oversight Committee as a member of the Executive Committee. Per the bylaws, all proposed amendments must be distributed at least 30 days prior to the Business Meeting to enable an active discussion regarding these amendments. Recognition of the Young Fellows Section in the Constitution and Bylaws will help assure the continuing growth and success of our organization.

COALITION TO IMPROVE DIAGNOSIS

(<http://www.improvediagnosis.org/?page=CID>): The Coalition continues to add new members. The organization is active in advocacy, education and research. Dr. Keri Donaldson has volunteered to be a content expert assisting the Coalition to gather information from the literature about diagnostic error in medicine. As part of the Coalition, we are devoting a considerable amount of time at our annual meeting highlighting how laboratory medicine decreases diagnostic error.

INTERSOCIETY COUNCIL FOR PATHOLOGY INFORMATION

The Intersociety Council for Pathology Information (ICPI) (<http://www.pathologytraining.org/>) is an educational organization serving as a central source of information about pathology in the practice of medicine, in medical research, and to provide literature about pathology as a career. We were an ad-hoc member but have decided to become an associate member. This has distinct advantages providing positive exposure for our ACS and the potential, in the future, to offer grants and awards through the ICPI. Drs. John Hicks and Kyle Kurek recommended our increased involvement. In the past, Dr. Dani Zander was our liaison but due to a conflict can no longer serve. Dr. Kurek has graciously accepted to be the ACS representative. Thanks to Dr. Zander for her previous service and we appreciate Dr. Kurek for accepting this important position.

MEMBERSHIP

We have reviewed when the majority of our memberships originated, and found that many result from our Annual Meeting. We will therefore review the list of local speakers, those currently not members, and offer a select number a one year complimentary membership in our association. This idea has been championed by Drs. Peter Hu and Rob Hardy. We are still finalizing the details and will present these at our Friday evening banquet. Our goal is to increase our membership through these invitations.

NEWSLETTER IMPROVEMENT

We are introducing a new segment to the Association's newsletter. We intend to highlight members changing positions. As your career changes, please let us know, so we can put it in the newsletter, allowing other members to share in your successes.

WEBSITE ENHANCEMENT

You can now retrieve the members' database from the Association website. It can be accessed by clicking on the membership tab then selecting the Membership Directory. You can modify your information or search the directory for information on other members. Please give us your suggestions how to enhance this feature. We will be adding additional features to the database in the future.

2018 MEETING

Our meeting in 2018 will be in Houston, Texas. Drs. Peter Hu and Awdhesh Kalia (meeting Co-Chairs) have already outlined the structure of the meeting and arranged a tour of the NASA Houston Space Center. They will present more information at our Birmingham Meeting.

FINALLY

I would like to thank the Association and specifically the executive committee members. We are continuing to move forward and although it will still require hard work and long hours, our association was, is and will continue to be successful. Please support Dr. Rob Hardy as your new president with as much dedication and effort as you have given me. We still need fresh ideas and ways to bring positive attention to the ACS that it deserves. Thank you again.

Sincerely,

Philip R. Foulis, MD, MPH, FACS

The Grapevine: Member News

Roger L. Bertholf, PhD, FACSc, President of the Association in 2004, has moved from the University of Florida in Jacksonville to Houston Methodist Hospital, where he is Medical Director of Clinical Chemistry in the Department of Pathology and Genomic Medicine.

Joshua A. Bornhorst, PhD, DABCC, FACB, FACSc, Treasurer of the Association, has taken a new position as Associate Director of the Clinical Immunoassay laboratories and the Metals testing laboratories at the Mayo Clinic in Rochester, MN.

Lori Millner, PhD, FACSc, newsletter editor of the Association has been appointed Director of Molecular Diagnostics for US MedScientific, in New Albany, IN. In this role, Dr. Millner will expand the laboratory's offerings in molecular oncology and infectious disease.

Dani S. Zander, MD, FACSc, President of the Association in 2010, has been appointed MacKenzie Chair of Pathology, and Chair of the Department of Pathology and Laboratory Medicine and University of Cincinnati Health's Chief of Pathology and Laboratory Medicine, in Cincinnati, OH.

New Members

FELLOW

Christopher Crutchfield, Ph.D., University of Cincinnati

ASSOCIATE FELLOW

Erik Korte, Ph.D., University of Louisville

Proposed Constitution and Bylaws Amendments

for vote at Business Meeting, May 20, 2017

In 2014 at the annual meeting at Amelia Island, the Association initiated a new section, called the Young Fellows Section. All members of the Association (whether Fellows, Associate Fellows, or Members) are automatically members of the Young Fellows Section (YFS) if they are 45 years of age or younger.

The YFS provides an environment to facilitate career growth and connections by providing: mentoring by experienced members; an environment to give platform presentations and receive feedback and awards; opportunities to create impactful relationships with other professionals in the field; and the opportunity to submit a case report, review article or research manuscript for publication to the Annals of Clinical and Laboratory Science, or to review high quality manuscripts submitted by other scientists. The YFS Oversight Committee is currently chaired by Kamisha Johnson-Davis, PhD, of the University of Utah and ARUP Laboratories.

The Bylaws currently give the President of the Association the ability to appoint committees and committee chairs. However, about 1.5 years ago, the Executive Committee decided that the Chair of the YFS Oversight Committee should be a permanent voting member of the Executive Committee. Unfortunately, however, the necessary Bylaws changes to create the YFS and its Oversight Committee and to appoint the Chair as a permanent voting member of the Executive Committee were never proposed and approved by the membership. Actual proposed changes appear in red in the column to the right.



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 Charles Hawker at hawkercd@aruplab.com

PREVIOUS QUESTION:

Submitted by Robert Hardy

This scientist is thought of as the father of the “mass spectrometer” but possibly more importantly he was a tremendously gifted teacher. In addition to him, eight of his research assistants (Francis William Aston, Charles Glover Barkla, Niels Bohr, Max Born, William Henry Bragg, Owen Willans Richardson, Ernest Rutherford, Charles Thomson, Rees Wilson) and his son won Nobel Prizes in Physics or Chemistry. Who is the scientist?

ANSWER: Sir Joseph John Thomson [no entries submitted]

CURRENT QUESTION

Submitted by Lori Millner

Who are the two pathologists who introduced statistical quality control to the clinical laboratory in the 1950s? (Hint: There is also a type of chart named after them)

ANSWER: submit your entry for next newsletter

Constitution

Article V: Membership

(new) Section 5. All members of the Association, including Fellows, Associate Fellows, and Members, if age 45 or younger, are automatically included in the Young Fellows Section and are entitled to all benefits afforded its members.

Article VI: Officers and Standing Committees

Section 3. Executive Committee: In addition to the President, Vice-President, Secretary, and Treasurer, the Executive Committee consists of three regular members, three co-opted members, and may include an honorary member. The regular members consist of Fellows, who each serve for a three-year term, and who have normally been the three most recent past presidents. The co-opted members consist of the Director of Scientific Sections, **and the Editor of the Annals of Clinical and Laboratory Science, and the Chair of the Young Fellows Section Oversight Committee.** The President may appoint one distinguished clinical scientist, who has been an active Fellow for at least twenty years, as an honorary member of the Executive Committee. Each co-opted or honorary member serves for a one-year term, but may be reappointed.

Bylaws

Article III: Duties of Officers

Section 7. Additional Committees: The President appoints the following committees: Awards, Constitution and Bylaws, Historical, Membership and Mentoring, Program, **and Publications, and Young Fellows Section Oversight Committees.** The President may appoint additional committees, such as the Music and Arts Committee and the Athletics Committee..

Arguments for the Proposed Amendments

The Young Fellows Section is a valuable new designation intended to increase membership in the Association, increase participation of younger members in Association meetings and the journal, and foster career development of young professionals. Even without the Bylaws amendments in place, this program has already been successful. Formalizing the YFS as an automatic designation for younger members will further increase their participation, since there has sometimes been confusion among new members as to whether they could attend the events scheduled at annual meetings. Further, giving the Chair of the YFS Oversight Committee a permanent position on the Executive Committee emphasizes the strategic importance with which the Association considers the YFS for its future.

There are no costs associated with designating members as belonging to YFS. There are also few, if any additional costs in appointing the Chair of the YFS Oversight Committee to the Executive Committee.

Arguments Against the Proposed Amendments

Some in the Association may feel that the current system was fine and need not be changed. Some may also feel that increasing the Executive Committee membership from nine (currently) to ten (proposed) is burdensome to the Association's management.

The Young Fellows Section

The Young Fellows Section provides an environment to facilitate career growth and connections by providing:

- Mentoring by experienced members
- Environment to give platform presentations and receive feedback and awards
- Opportunities to create impactful relationships with other professionals in your field
- Exciting conferences with a day tour of state of the art research/clinical facilities and a social/cultural activity
- The society's journal in which to publish or to gain experience reviewing high quality manuscripts

We are encouraging fellows to submit a case report, review article or research manuscript for publication to the *Annals of Clinical and Laboratory Science*, which is the journal for our Association. The instructions for authors can be found at:

<http://www.annclinlabsci.org/>

It is our goal to have Young Fellows and trainees submit an article each quarter for publication. The editorial board is also looking for individuals to serve as reviewers for the journal. If you are interested in serving as a reviewer, please contact **Kamisha Johnson** via email (listed below).



Kamisha Johnson-Davis

YOUNG FELLOWS SECTION CHAIR:

Kamisha L. Johnson-Davis, PhD, DABCC (CC, TC), FACSc
Chair, Young Fellows Section—Association of Clinical Scientists

University of Utah, Assistant Professor (Clinical)
ARUP Laboratories, Medical Director, Clinical Toxicology

email: kamisha.davis@hsc.utah.edu
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(2015-18)

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Kamisha Johnson-Davis, PhD Chair,
Young Fellows Section

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(2014-17)

Nina Tatevian, MD, PhD
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YOUNG FELLOWS SECTION OVERSIGHT COMMITTEE

Kamisha Johnson-Davis, PhD, Chair
Lori Millner, PhD, NRCC
Keri Donaldson, MD, PhD
Eric Rosenbaum, MD



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: hawkercd@aruplab.com

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Rise to the occasion—attend the ACS Annual Meeting in Birmingham, AL, May 17-20, 2017



Courtesy: Birmingham Business Alliance

"Vulcan", the world's largest cast sculpture, rises 180 feet above Birmingham, AL



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