



# Clinical Science Trumpet

Newsletter of the Association of Clinical Scientists

Henry Oh, Ph.D., FACSc, Editor

Vol. 42, No. 3—September 2022

## 2023 Annual Meeting: Mayo Clinic, Rochester, MN

144th Meeting  
May 3-6, 2023

Rochester Marriott Mayo Clinic,  
Rochester, Minnesota

by Joshua Bornhorst, Ph.D., FACSc and Henry Oh, Ph.D., FACSc

*The Association of Clinical Scientists (ACS) officially announces the next Annual Meeting to be held at Mayo Clinic in Rochester, Minnesota from May 3 to 6, 2023. The preliminary theme is "Digital Imaging, Data Analytics and Artificial Intelligence in Pathology." This meeting will be hosted by Joshua Bornhorst, Ph.D., DABCC, FACSc, from Mayo Clinic Rochester, and Jonathan Hoyne, Ph.D., DABCC, FACSc, from Mayo Clinic Jacksonville.*

### ABOUT MAYO CLINIC

Mayo Clinic has major campuses in Rochester, MN, Scottsdale and Phoenix, AZ, and Jacksonville, FL. Mayo Clinic's 73,000-person workforce cares for more than 1.3 million people each year with serious illnesses from all 50 U.S. states and 130 countries. It has more than 190 physician and doctoral scientists actively practicing in their respective specialties. The Mayo Clinic in Rochester, MN is the original and largest Mayo Clinic campus.

The Department of Laboratory Medicine and Pathology at Mayo Clinic Rochester is staffed by more than 2,350 people who work in numerous specialty laboratories within the department. The department is one of the largest laboratories in the world performing more than 27.7 million lab tests annually.

### ACCOMMODATIONS

Accommodations for this annual meeting will be at the Rochester Marriott Mayo Clinic, which is centrally located in Rochester. The hotel is connected to the Mayo Civic Center and Mayo Clinic through a climate-controlled pedestrian skyway and underground walkways. It is ten (10) minutes from the Rochester International Airport (RST). Alternatively, Minneapolis International Airport (MSP) is 70 minutes away and there are multiple shuttles to the hotel each day (**Rochester Shuttle Service**).

While in Rochester, activities of note include a banquet at the Mayo Foundation House, which was the residence of Dr. and Mrs. William J. Mayo. It was built between 1916



Rochester, Minnesota downtown skyline (above) and Mayo Clinic (below)



and 1918. Other exciting tours of Mayo history and historical sites include the Gonda Building, MayoWood, and Plummer House.

Start making plans in your calendar to attend the 2023 ACS Annual Meeting in Rochester, MN. More details will follow later.

Page 2	2022 Louisville Meeting: a Success
Page 5	2023 Awards Announced
Page 7	President's Corner; Young Fellows
Page 8	Interview: Dr. Nina Tatevian
Page 9	In Memoriam: Dr. Alexander Feldman
Page 10	ACS 2022 Annual Meeting Minutes
Page 12	The Grapevine: Member News
Page 13	Trivia; ACS Flashback; Individual Donors
Page 14	ACS Officers and Committees



# 143rd ACS In-Person Meeting a Great Success!

by **Roland Valdes, Ph.D., FACSc** and **Henry Oh, Ph.D., FACSc**

The 143rd meeting of the Association of Clinical Scientists was the first in-person meeting since 2019. The theme was on “Analytical Demands and Informatics in Precision Medicine” with a subtitle of “Environment, Pandemics and Informatics in Health and Disease.”

Congratulations to the ACS Program Committee for organizing and conducting a highly successful meeting which was held on May 11-14, 2022, in Louisville. The meeting was hosted by the Department of Pathology and Laboratory Medicine of the University of Louisville, Kentucky.

This highly educational meeting highlighted forty-four (44) scientific and clinical presentations from outstanding speakers representing the University of Louisville School of Medicine faculty and students, as well as presenters from many other institutions. In addition to the timely topics in environmental sciences, pandemics and informatics in pathology and laboratory medicine, the meeting also emphasized the fundamental topics in clinical sciences setting the pace for future diagnostics.

The Abraham J. Gitlitz and Claude P. Brown Memorial Lectures were presented respectively by **Dr. Kenneth Palmer** and **Dr. Craig McClain**. Dr. Palmer's topic was

on “Drug Development in Academia During a Pandemic” and Dr. McClain's topic was on “The Many Roads to Steatohepatitis and Its Treatment.” A luncheon discussion by **Dr. Mark Slaughter** gave an update on the modern artificial heart transplantation techniques.

To add levity to the annual meeting, the superb social events included a narrated tour and lunch visit to the Churchill Downs Museum and the Churchill Downs racetrack and famous home of the Kentucky Derby.

The annual awards were presented by the Awards Chair, **Dr. Myra Wilkerson** during the Annual Awards Banquet on May 13, 2022. The recipients for this year's awards were **Dr. Norah Al-Ghamdi** and **Dr. Deblina Mukherjee** for the Young Clinical Scientist Award, **Dr. Consolato Sergi** for the F.W. Sunderman Jr., Diploma of Honor Award, and **Dr. Jonathan Hoyne** for the Clinical Scientist of the Year Award.

The Annual Awards Banquet featured a special invited speaker, **Susan Riegler**, a widely published writer and past president of the Bourbon Women Association, who presented “From Grain to Glass: The Science Behind Kentucky Bourbon.” The reception included a special tasting of different bourbons. In addition, we also held an

*continued on page 3*



**Dr. Kenneth Palmer**



**Dr. Craig McClain**



**Dr. Mark Slaughter**



*Meeting attendees attend a tour of Churchill Downs, home of the Kentucky Derby*





*Susan Riegler presented "From Grain to Glass" at the Annual Reception in Louisville*

*continued from page 2*

evening social event for our Young Clinical Scientists at a sports bar that was very well attended.

The ACS Annual Business Meeting was held on May 14, 2022, at a luncheon. During the Annual Business Meeting, incoming ACS president for 2022, **Dr. Chris Crutchfield**, received the gavel from outgoing president, **Dr. Josh Bornhorst**. The minutes of the meeting are published elsewhere in this newsletter.

On Saturday evening, May 14, 2022, attendees were treated to the Annual Musicales and Art Show organized by **Dr. Myra Wilkerson**. Dr. Neda Zarrin-Khameh displayed beautiful original pieces that she had fashioned that were for sale to attendees with 100% of the proceeds going to ACS. Performing members of the Association in addition to **Dr. Wilkerson** (piano) were **Dr. Henry Oh**, and **Dr. Fritz Kiechle**. **Dr. Lance Truong** recited an original poem while **Dr. Kiechle** played background music.

A special thank you and recognition goes to **Dr. Jonathan Hoyne** and **Dr. Chris Crutchfield** for handling the hybrid presentations for some speakers who delivered their topics virtually as well as some on-line attendees. Thank you also to **Dr. Charles Hawker** and **Ms. Anara Baimetova** for managing the logistical aspects of the meeting.

*continued on page 4*



*Sharing a moment of camaraderie at one of the Annual Meeting's social events*



*Dr. Chris Crutchfield (right) receives the gavel from outgoing president Dr. Josh Bornhorst (left)*



*Dr. Myra Wilkerson plays the piano at the Annual Musicales and Art Show*



*Dr. Fritz Kiechle plays background piano while Dr. Lance Truong recited an original poem*



*Dr. Henry Oh at the piano during the Annual Musicales and Art Show*



*continued from page 3*

All-in-all, after missing two years of physical meetings due to the pandemic, the 143rd ACS Meeting went off extremely well and reacquainted many of our Fellows and members.

We are all looking forward to visiting Mayo Clinic Rochester, Minnesota in May 2023.

#### Acknowledgement:

The Program Committee members for this annual ACS Meeting included **Roland Valdes, Jr., Ph.D.**, Chair, **Mustafa Namir Ghani Al-Kawaaz, M.D.**, **Chris Crutchfield, Ph.D.**, **Philip R. Foulis, M.D., M.P.H.**, **Dibson Dibe Gondim, M.D.**, **Joshua Hayden, Ph.D.**, **Jonathan B. Hoyne, Ph.D.**, **Mark W. Linder, Ph.D.**, **Tiffany Bratton, Ph.D.**, and **Yusheng Zhu, Ph.D.**



*The 2022 Annual Meeting in Louisville was a great success*

*The Louisville Meeting offered many opportunities to gather Fellows and members together*



## Corporate Sponsors for the Annual Meeting

The Association of Clinical Scientists gratefully acknowledges and appreciates the following corporate sponsors of the Association's meeting during the past year:

#### **GOLD SPONSORS**

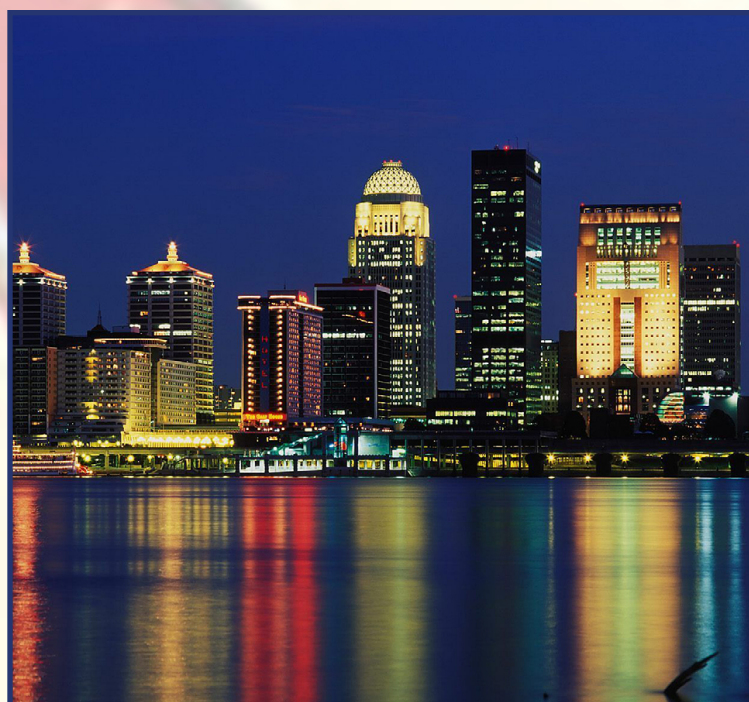
**Becton  
Dickinson**

#### **SILVER SPONSORS**

**Hemosonics  
Bruker  
Roche  
PGXL**

#### **BRONZE SPONSORS**

**Agena  
Bioscience**



*Downtown Louisville at night from  
across the Ohio River*





# Awards Committee Announces 2023 ACS Awards

## Clinical Scientist of the Year

**YUSHENG ZHU, PHD, DABCC, FACSC, FAACC**

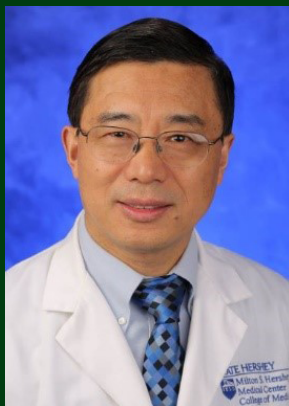
**Yusheng Zhu, Ph.D., DABCC, FACSC, FAACC**

is a Professor of Pathology & Laboratory Medicine, Adjunct Professor of Pharmacology, Medical Director of Clinical Chemistry and Automated Testing Laboratory, Co-Director of Pathology Core Reference Laboratory, Medical Co-Director of Point-of-Care Testing (POCT) Program, Director of Postdoctoral Clinical Chemistry Fellowship Training Program, and Chair of Laboratory Utilization Committee at the Pennsylvania State University Hershey Medical Center and College of Medicine in Hershey, Pennsylvania. Prior to his current positions, he was a tenured Professor of Pathology and Medical Director of Clinical Chemistry and Toxicology at the Medical University of South Carolina in Charleston, South Carolina.

**Dr. Zhu** is board certified by the American Board of Clinical Chemistry (ABCC) in Clinical Chemistry, Toxicological Chemistry, and Molecular Diagnostics and a Fellow of the American Association for Clinical Chemistry (AACC) Academy (formerly National Academy of Clinical Biochemistry) since 2007.

Currently, he is the President-Elect and Fellow of the Association of Clinical Scientists, President-Elect of AACC Academy, Chair of AACC Academy Council Laboratory Test Utilization Task Force, Chair of AACC Academy Cervical Cancer Detection Guidance Document Working Group, and Chair of AACC Mass Spectrometry & Separation Science Division. Yusheng is on the Editorial Boards of three medical journals and an invited reviewer of fourteen international medical journals.

**Dr. Zhu** also served as the President of the North American Chinese Clinical Chemists Association in 2012, President of the Commission on Accreditation in Clinical Chemistry (ComACC) in 2015, Chair of AACC Southeast Section in 2015, Chair of Clinical Translational Science Division (2015-2016), Secretary of Proteomics & Metabolomics Division (2013-2015) of AACC, Treasurer of AACC Mass Spectrometry & Separation Science Division (2014-2017), and Vice President of ABCC (2019-2021). He participated in the development of the CLSI document C62: Liquid



*Dr. Yusheng Zhu*

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

**CHRISTOPHER CRUTCHFIELD, PHD, HCLD (ABB), DABCC**

**Christopher Crutchfield, Ph.D., HCLD (ABB), DABCC**

is an Associate Professor of Pathology at the Northwestern University Feinberg School of Medicine and Associate Medical Director of the Northwestern Memorial Hospital Clinical Laboratory. He earned his PhD in Chemistry from Princeton University in Princeton, NJ. Following his PhD, he was an Intramural Research Fellow at the National Institutes of Health in Bethesda, MD and a Clinical Chemistry Fellow at the Johns Hopkins University School of Medicine in Baltimore, MD. His academic interests include statistical quality control, laboratory informatics, toxicology, and clinical mass spectrometry. He has served the Association of Clinical Scientists Executive Committee since 2019 with his initial year as a Member-at-Large after which he was elected Vice President. His term as President of the Association began at the conclusion of the 2022 Annual Meeting in Louisville, KY.



*Dr. Christopher Crutchfield*



Chromatography-Mass Spectrometry Methods; Approved Guideline.

As a teacher, **Dr. Zhu** has trained 7 post-doctoral clinical chemistry fellows and numerous pathology residents. **Dr. Zhu** has received research support from NIH, in vitro diagnostics industries, Department of Health of Pennsylvania, and local funding agencies. He is interested in clinical and translational research in clinical chemistry, toxicology, hemoglobinopathy, pharmacogenetics, imaging mass spectrometry, and clinical application of mass spectrometry. **Yusheng** has been conducting multiple clinical trials of devices for which data are presented to the FDA under 510(k). He has been invited to give 66 presentations at national and international conferences. Yusheng has over 139 publications including peer-reviewed papers, editorials, book chapters, and abstracts. **Dr. Zhu** has received over 40 awards from AACC, NACB, ACS, and other organizations.

*continued on page 6*



## 2023 ACS Awards continued

continued from page 5

### Gold-Headed Cane Award

**FREDERICK L. KIECHLE, MD, PHD**

**Frederick L. Kiechle, M.D., Ph.D.** was born in Indianapolis, IN on March 26, 1946. He majored in chemistry at Evansville College, Evansville, IN from 1964 – 1968. From 1968 – 1973 he was in the MD, PhD program at Indiana University where he completed his PhD in bacteriophage T4-infected *E. coli* DNA, RNA and protein synthesis in 1973 and MD in 1975. He completed a combined anatomic and clinical pathology residency at William Beaumont Hospital, Royal Oak, MI from 1975 – 1979. He then devoted his career to the field of clinical pathology (1979 – 2022).



*Dr. Frederick Kiechle*

**Dr. Kiechle** was a clinical chemistry fellow (1979 – 1980) at Barnes Hospital, St. Louis, MO; Assistant Professor at University of Pennsylvania (1980 – 1983); Chief, Clinical Chemistry (1983 – 1988), Chairman of Clinical Pathology (1988 – 2005) at William Beaumont Hospital; Medical Director of William Beaumont Reference Laboratory (1993 – 2005); Medical Director, Clinical Pathology, Memorial Healthcare System (5 hospitals), Pathology Consultants of South Broward, Hollywood, FL (2006 – 2016); Chief Medical Officer, Boca Biolistics Reference Laboratory, Pompano Beach, FL (2018 – present).

**Dr. Kiechle** divided his time between committee activities related to professional organizations like CAP, ASCP, ACS and AACC, basic research including insulin action; intracellular mediators; electrochemistry/detection of nitric oxide, Ni, impedance; fatty acid metabolism; autoimmunity; peroxisomal disorders/leukodystrophies; Hoechst 33342-induced apoptosis; and clinical lab development like initiating a STAT laboratory; selecting new clinical lab software; co-founder of one of the first clinical DNA laboratories, Annual William Beaumont Hospital Symposium, Beaumont Reference Laboratory; Joint Venture Hospital Laboratory, Michigan; BL3 safety microbiology laboratory; flow cytometry lab, toxicology lab; total lab automation, POCT, MALTI-TOF in microbiology. He has published 181 peer-reviewed articles, 24 book chapters, 2 books, 231 abstracts and given 238 presentations. He has received 10 awards from 1967 to 2014 including Hartford Foundation Fellow (1982 – 1983), Clinical Scientist of

### Young Clinical Scientist Award

**MÜGE SAK, BS**

**Müge Sak, B.S.**, graduated from the Middle East Technical University in Ankara, Turkey, with a Bachelor of Science degree in Molecular Biology and Genetics. During her undergraduate years she participated in several projects in different branches of biological science. At the end of her junior year, **Müge** was accepted to an internship position at the Ohio State University Wexner Medical Center in Columbus, Ohio in Dr. Norman Lehman's neuro-oncology laboratory.



*Müge Sak*

After graduation, she was admitted to the Ph.D. program at the University of Louisville, Department of Biochemistry and Molecular Genetics in Louisville, Kentucky. **Müge** is currently a Ph.D. candidate, working on her dissertation on glioblastoma research with Dr. Norman Lehman in the Department of Pathology and Laboratory Medicine. Their research includes testing the efficacy of combination therapies in glioblastoma cell lines and *in vivo* mouse tumor models and investigating the mechanism of action of these treatments.



the Year Award (ACS, 1996), Distinguished Service Award Honoring George F. Stevenson, MD (ASCP, 2001), Diploma of Honor (ACS, 2006), CAP Lifetime Achievement Award (CAP, 2008) and Leadership and Service Award (CLSI, 2011).

He enjoys playing jazz piano music, reading novels, writing and sleeping in anytime. Also, he loves to spend time with his 3 grown children and their 5 grandkids (all girls). He has been supported all these years by his lovely wife, **Janet Kiechle**. She is currently typing chapters and proofreading Dr. Kiechle's latest book "Disruptive Technology in Clinical Medicine" to be published by CAP Press.

It is a privilege and honor for **Dr. Kiechle** to receive the Golden-Headed Cane Award from the Association of Clinical Scientists this year.





## President's Corner

I hope all of you are well as we still celebrate the successful Annual Meeting in Louisville, the 143rd meeting of the Association of Clinical Scientists. This meeting was accomplished through the steadfast efforts of **Roland Valdes, Charlie Hawker, Jonathan Hoyne, Anara Baimetova**, other members of the Executive and Program committees, and most of all: the members who made the effort to travel to Louisville and attend the meeting.



*Dr. Christopher Crutchfield*

This meeting was marked by its identity as a “hybrid” meeting—with members viewing content remotely as well as some select speakers providing their presentations remotely. Attitudes towards the hybrid approach were mixed, and we’re still evaluating this approach for future meetings.

The Association is having active discussions around its membership and how to best grow and maintain its membership. A core identity of the Association is the close relationships developed between its members. To that end, if you are reading this newsletter, and are a member, please consider inviting a colleague you know to join the Association. Information on how to join the Association can be found at:

[www.clinicalscience.org](http://www.clinicalscience.org) and follow the tab for “Membership.”

Planning is underway for our 144th Meeting in Rochester, MN and **Joshua Bornhorst**, our past president, has already developed a tremendous itinerary for the meeting thus far. Save the dates from May 3 to May 6, 2023.

Finally, work is still underway for our eventual website revamp. We have moved our backend to a server that can host a drupal-based content management system. Stay tuned for more updates on this and please share your thoughts on features you feel would be most useful for a new website.

**Christopher Crutchfield,**  
**Ph.D., HCLD (ABB), D(ABCC), FACS**  
President (2022-2023)



## The Young Fellows Section

Dear Readers,

I would like to acknowledge the passing of the previous Young Fellows Section Chair, **Dr. Alexander Feldman**, and the irreplaceable loss this represents to our organization and the greater community at large. In the spirit of honoring **Dr. Feldman's** contributions to our organization and continuing his work as chair of the young fellow's section, I humbly write in his place as the new Young Fellows Section Chair.



*Dr. Lance Truong*

I'd like to start by introducing myself, I'm **Dr. Lance Truong**, a current third-year resident physician and Associate Chief Resident at Brown University's Anatomical and Clinical Pathology residency program at Rhode Island Hospital in Providence, Rhode Island. I am a recent addition to the Association and a current Associate Fellow here, and I must thank the Association and its members for the warmest welcome during the 2022 annual meeting in Louisville, Kentucky. A little about me and my background: I am a central California native who began his higher education studying field biology, first gaining an associate degree in Life Sciences, later earning a bachelor's degree in Entomology with a focus in forensics, and finally earning my medical degree (Doctor of Osteopathic Medicine, D.O.) from a medical school in southern Nevada before moving northeast to join Brown University's pathology residency program. I have broad interests in applied and clinical sciences and given the very early career stage that I'm in, I am hoping to develop these interests in collaboration with you, the reader, and my fellow members alongside other younger members of our association.

The objective of the Young Fellows Section continues to be the fostering of career growth by providing early-career fellows opportunities to network and build relationships with other professionals in the field, give presentations and receive awards at our annual meetings and receive mentorship from more experienced members. To that end, we encourage young fellows to submit cases and review articles or original research manuscripts for publication to the *Annals of Clinical and Laboratory Sciences*, the journal for ACS. The editorial board is also encouraging trainees to serve as reviewers for the journal, wherein you can be paired with senior reviewers to receive hands-on guidance in the reviewing process.

I'm excited to be a part of the Association and to contribute to this capacity as the newest Young Fellows Section Chair. I look forward to working with you all more in the coming months and years. Please do not hesitate to reach out to me in the meantime and I look forward to all of the new and familiar faces I will see at our next annual meeting.

Sincerely,

**Lance Van Truong, D.O.**  
Chair, Young Fellows Association

Associate Chief Resident, Brown University Department of Pathology and Laboratory Sciences





## Interview: Dr. Nina Tatevian

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. Below is an interview between Henry Oh, Ph.D., FACSc, Young Fellow/Editor and Nina Tatevian, M.D., Ph.D., FACSc., Editor-in-Chief of *The Annals of Clinical and Laboratory Science* and a past president of ACS.

**Henry Oh:** Please tell me a little bit about yourself. Where did you grow up? Where did you go to school? How did you develop an interest in science and medicine?

**Nina Tatevian:** I spent my school years in the Soviet Union and graduated high school with the gold medal (the highest achievement, equivalent to valedictorian). In the education structure I went through, students were expected to enter college with a firm decision on what career they were going to pursue. That was quite challenging, considering that I graduated at the age of seventeen. I remember myself then being rather rebellious, trying to figure out what to do, even considering becoming a theater critic. I eventually came full circle to medicine. I say “full circle” because medicine was constantly present my whole life. My parents were both physicians, as well as most of their friends, so I was exposed to all those vibrant discussions around the dinner table for as long as I can remember. I was also heavily influenced by science fiction; I read sci-fi books by everyone from Jules Verne to H.G. Wells to Bradbury to Asimov, and it opened such wide horizons! I aspired to be part of that kind of “Star Trek” breakthrough scientific research, and at that time, industrial organic chemistry appeared to be just that. I entered university as a chemistry major, but during the first year I realized that my true calling was medicine after all. I finished the first year of chemistry, passing all exams for two semesters while preparing to enter medical school the following year. I passed entrance exams to one of the best medical schools in Moscow, which is now known as the Russian National Research Medical University. I completed and earned my medical degree with magna cum laude honors.

**Oh:** Tell me about your career progression. How did mentorship influence your professional career?

**Tatevian:** My career started rather early and thanks to my first and most influential mentor, Professor V.V. Kuprijanov, the leading investigator in the field of microcirculation, who involved me in research at the anatomy/morphology/histology department since my first year of medical school. Under his guidance, I studied microcirculation in skeletal development, which was the hottest topic at that time. To satisfy my aspiration to “do something really scientific,” he introduced me to the Electron Microscopy laboratory, which was a rare advancement at that time. This work laid the foundation and developed into my PhD thesis.

**Oh:** Did you have any unexpected turns in your training or career?



**Dr. Nina Tatevian**

**Tatevian:** My first turn was switching from chemistry to medicine. My major turn was when I had to start anew after emigration to the United States over 30 years ago. Passing exams, going through residency, passing more exams, and starting a new job was just as exciting as it was challenging.

**Oh:** How did you get involved with the Association? How has ACS helped you in your career?

**Tatevian:** I was introduced to the ACS by my colleague/mentor during my residency. I instantly liked the association’s friendly and supportive environment. The brilliant scientists and pathologists gave me intellectual stimulation and, on an emotional level, a feeling of belonging despite my rather low ranking in the field at that time. I remember the welcoming atmosphere of the first meeting I attended, and I do my best to recreate it for junior members who attend our meetings. Gradually,

*continued on page 9*



## Dr. Tatevian Interview continued

*continued from page 8*

I became involved more and more, grew to the position of President of the ACS, and eventually was trusted with the responsibilities of the Editor-in-Chief of the Annals of Clinical and Laboratory Science.

**Oh:** Describe the importance for faculty to be involved in national/international organizations and to have administrative responsibilities outside of one's home institution.

**Tatevian:** Exposure to scientific interaction is an invaluable experience for rising faculty. It helps to develop necessary skills of communication, presentation, and correspondence. This exposure also leads to connections for future references. Delivering presentations on the national/international levels promotes you and makes you visible in your field. And finally, it is just a great pleasure to see all your friends and colleagues, even if it is only once per year! I always look forward to our meetings—25 years and counting! Our association is a small and tight group of people who know each other and support each other's growth and development.

**Oh:** How did you develop your network of colleagues over the years? How critical has this been towards success in your career?

**Tatevian:** After coming to the meetings of this organization long enough, I've gotten to know its members and they've become my friends. I make a conscious effort to make younger members feel welcome in the circle of more senior colleagues. And then before I know it, they are at the same level, extending help to colleagues. There have been many occasions when members in the ACS were instrumental in each other's career development. What goes around comes around, right?

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

**Tatevian:** Stay involved with your colleagues and mentors. Even casual interaction is beneficial and can land you in a supportive organization such as the ACS. We live in exciting, rapidly changing times, and we should continue going ahead with new techniques, new methods, and new approaches to improve the medical field. Making such improvements takes boldness, strategic vision, and enthusiasm, enthusiasm being paramount. I wish you all the best in your life and professional career!



## *In Memoriam:* Alexander Zane Feldman, M.D., FACs May 8, 1984–May 11, 2022

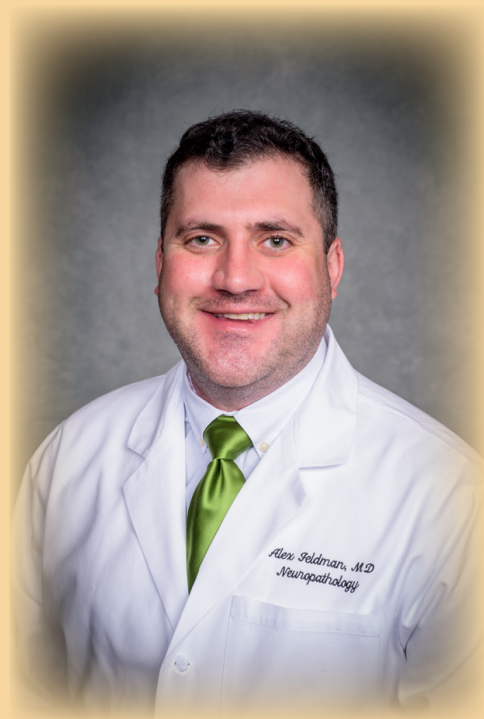
by Shuko Harada, M.D. and Charles Hawker, Ph.D.,  
See also *Annals of Clinical & Laboratory Science*, vol. 52, no. 4, 2022

Dr. Alexander Zane Feldman (Alex) passed away suddenly on May 11, 2022, in Birmingham, AL, while Association members were gathering for the annual meeting in Louisville, KY. He was 38 years old, definitely too young for his life to end. He had just started his faculty position at the University of Alabama at Birmingham (UAB) in July 2021 in the Neuropathology Division of the Department of Pathology as a neuropathologist as well as a pediatric/perinatal pathologist.

Alex became a Fellow of the Association in 2018, and he was appointed by then ACS President Robert Hardy to serve as the Chair of the Young Fellows Section (YFS) and was reappointed by the succeeding Presidents to serve in that role in 2019, 2020, and 2021.

His talent was greatly appreciated at the Association's Musicale, an important annual event. He was a "one and only kind," who had a talent in both music and clinical science in combination of neuropathology and pediatric pathology. The Association will definitely miss him.

**Editor Note:** [click this link for more personal insights into the life of Alexander Feldman.](#)



**Dr. Alexander Feldman**



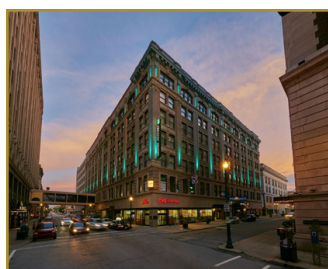
# Association of Clinical Scientists Minutes

## Annual Membership Business Meeting

### Embassy Suites Downtown Louisville, KY, May 14, 2022

1. Dr. Bornhorst called the meeting to order at 12:05 pm.
2. **Attendees included.** Dr. Bornhorst, Dr. Crutchfield, Dr. Zhu, Dr. Hoyne, Dr. Harada, Dr. Zarrin-Khameh, Dr. Hunter, Dr. Tatevian, Dr. Hawker, Dr. Bertholf, Dr. Valdes, Dr. Oh, Dr. Wilkerson, Dr. Wittliff, and Dr. Kiechle. Per the Association's Constitution and Bylaws these 15 members constituted a quorum.
3. The minutes of the 2021 Business were submitted by Dr. Hoyne (Secretary). The minutes were reviewed by those in attendance and were unanimously approved following a motion by Dr. Hawker and a second by Dr. Bertholf.
4. Discussion about Zoom attendance at the annual meeting and Zoom fall symposium. The annual meeting in Louisville was both broadcast to virtual attendees and hosted virtual speakers for the first time. Discussion that while this was successful generally and justifiable under current pandemic conditions, in the future we would not want to allow virtual attendance due to the large effort required to support this. However, discussion that perhaps for very influential speakers of national and international renown, we could host virtual speakers in the future. To be further discussed.
5. **President's Report.** Dr. Bornhorst gave the President's report. This was led by the tragic news that Dr. Feldman had passed unexpectedly shortly before the Annual Meeting. Dr. Bornhorst eulogized Dr. Feldman, noting his contributions to the Association.
6. **Treasurer's Report.** Dr. Roper (Treasurer) was absent from the meeting. However, he emailed a summary to Dr. Hawker which was presented as a PowerPoint slide. The group had a discussion about the Treasurer's report. Generally, our financial position remains strong driven by annual positive income from the Journal as well as our long-term investment fund. Additional income came from donations and membership dues. Routine expenses included contractor fees and payroll.
7. **Annals of Clinical & Laboratory Science.** Dr. Tatevian reported that the Journal celebrated 50 years in 2020. We increased page charges recently. Net income slightly under \$50,000. Impact factor slightly above 1. Increasing number of submissions. In 2021 there were 914 and we expect about 2000 papers in 2022. We publish about 20 papers per issue times 6 issues, so about 120 papers per year. We expect to accept about 6% of submissions this year. Our peer review process is to send to two independent reviewers. If one says no then we decline. We have a backlog of 2 issues worth of accepted articles.
8. **Membership Report.** Dr. Hoyne led with a discussion about the increasing number of applicants without a clinical science background in research, education or service. There was a discussion that the focus of the Association should be on growing the membership with the historical focus on clinical scientists. Discussion and agreement that we value participation in the membership and in person attendance at the annual meeting. Dr. Hoyne invited fellows and residents attending the meeting to apply for membership.
9. **Website and Marketing Report.** Dr. Hawker discussed the website and the flexibility of making changes to our current pages. Discussion about website improvements to move the membership directory from FileMaker to Drupal background for ease of use for our members. This project has been undertaken by our webmaster, Jason Shepherd. Dr. Crutchfield discussed the migration of the website from ARUP to our own server with a company which focuses on Drupal integration which is the basis of future plans for website improvements including the directory, registration for annual meetings, perhaps CE and CME form submission. Discussion from Dr. Truong about social media presence – for instance Twitter. Discussion that Dr. Truong should lead the way with this. Perhaps bring this up at EC. Discussion to have Dr. Truong attend next EC meeting.
10. **Newsletter Report.** Discussion by Dr. Oh on the newsletter. Next issue will mark 1 year since Dr. Oh has been the Editor for the Newsletter. Dr. Tatevian will be the next senior member interview. Discussion about including an article about Dr. Feldman.

*continued on page 11*



Embassy Suites Louisville  
Downtown Hotel



Louisville, Kentucky skyline at  
sunset along the Ohio River





## Meeting Minutes...

*continued from page 10*

11. **Nominating Committee Report.** Dr. Hawker represented the Nominating Committee for Dr. Donaldson who could not attend the meeting. Nominations previously accepted were Dr. Christopher Crutchfield as the President and Dr. Yusheng Zhu as President Elect. Dr. Shuko Harada was nominated as Vice President, Dr. Erica Fatica for a 3-year term as Treasurer and Dr. Alicia Algeciras-Schimmich to a 2-year term as EC member. Dr. Bertholf moved that the entire slate from the Nominating Committee be approved. Seconded by Dr. Zarrin-Khameh and approved unanimously.

12. With photographs and applause Dr. Bornhorst presented Dr. Crutchfield with the gavel and the *Laser Pointer of Power* and the membership applauded Dr. Crutchfield's election as President.

13. **Incoming President's Remarks.** Dr. Crutchfield summarized the activities of the Association during the pandemic and noted that the Association successfully navigated the challenges of the pandemic by innovating and maintaining a presence and providing value to our membership. Dr. Crutchfield remarked that growing the membership was the priority of his presidency and mentioned that focusing on funding and awarding trainees with travel grants was a preferred approach. Dr. Crutchfield thanked the Association for their support.

14. **Future Annual Meetings Report.** Dr. Bornhorst gave an overview of Rochester, MN and Mayo Clinic – the site of the 2023 meeting. The theme will be Data Imaging, Data Analytics and Artificial Intelligence in Pathology. Dr. Hoyne discussed that the 2024 meeting will be in Florida, either Tampa (preferably) or Jacksonville. Discussion that 2025 meeting will be held in Providence, Rhode Island and hosted by Dr. Tatevian.

15. **Awards Committee.** Dr. Myra Wilkerson, Chair of the Awards Committee, reported that Dr. Yusheng Zhu will be awarded the Clinical Scientist of the Year for 2023, Dr. Christopher Crutchfield will be awarded the F.W. Sunderman, Jr Diploma of Honor, and Dr. Frederick Kiechle will be awarded the Gold Headed Cane. The Young Clinical Scientist Award(s) could not be chosen yet since some of those eligible were presenting in the afternoon following this meeting. These awards will be announced at the start of the Musicales.

16. The Meeting was adjourned at 1:20 pm.

Respectfully submitted,

**Jonathan B. Hoyne, Ph.D., FACSc**  
**Secretary**



*Dr. Chris Crutchfield (right) receives the gavel from outgoing president Dr. Josh Bornhorst (left)*



*Part of the Mayo Clinic campus in Rochester, Minnesota*



*Tampa, Florida skyline*



*Providence, Rhode Island skyline*



# The Grapevine: Member News

## New Members

### MEMBER

#### Müge Sak, B.S.

Department of Biochemistry and Molecular Genetics  
University of Louisville  
505 S. Hancock Street 342B  
Louisville, KY 40202

### ASSOCIATE FELLOWS

#### Salim Ghandorah, Ph.D.

Department of Pathology and Laboratory Medicine  
King Fahad Specialist Hospital - Dammam  
Almuraikbat Dist.  
Dammam, Saudi Arabia

#### Sarrah Lahorewala, B.S., Ph.D.

Department of Pathology  
Houston Methodist Hospital  
6565 Fannin Street  
Houston, TX 77030

#### Lance Van Truong, D.O.

Department of Pathology and Laboratory Medicine  
Brown University/Rhode Island Hospital  
593 Eddy St.  
Providence, RI 02903

### FELLOWS

#### Janetta Bryksin, Ph.D.

Department of Pathology & Medicine  
Emory University  
43 McEvoy Lane  
Decatur, GA 30300

#### Jessica M. Colón-Franco, Ph.D.

Laboratory Medicine  
Cleveland Clinic Foundation  
10300 Carnegie Ave.  
Cleveland, OH 44106

#### Miriam Conces, M.D.

Department of Pathology and Laboratory Medicine  
Nationwide Children's Hospital  
700 Children's Drive, RM J0350  
Columbus, OH 43205

#### Brandon Henry, M.D.

Nephrology Clinical Lab  
Cincinnati Children's Hospital Medical Center  
7065 Foundry Row  
West Chester, OH 45063

#### Jose C. Jara-Aguirre, M.D.

Department of Pathology & Laboratory Medicine  
Children's Nationwide Hospital  
111 Michigan Avenue NW, Suite 2212  
Washington, D.C. 20010

#### Anthony D. Maus, Ph.D.

Department of Laboratory Medicine and Pathology  
Mayo Clinic  
5185 Meadow Dr. SE  
Rochester, MN 55904

#### Joyce J. Ou, M.D.

Department of Pathology & Laboratory Medicine  
Alpert Medical School at Brown University  
101 Dudley Street  
Providence, RI 02905

#### Mujeeb Shittu, Ph.D.

Department of Biotechnical and Clinical Laboratory Sciences  
SUNY at Buffalo  
315 Farber Hall  
Buffalo, NY 14214

#### P.M. Sunil, M.D.S., Ph.D.

Department of Oral and Maxillofacial Pathology  
Sri Anjaneya Institute of Dental Science (SAIDS)  
Calicut, India

ACS Fellow **Dr. Henry Oh**, the Executive Director and Department Chair of Health Occupations at Idaho State University, presented at the International Congress of Nursing, Biochemistry and Pharmacy (Congreso Internacional Multidisciplinario de Las Carreras de Enfermería, Bioquímica Y Farmacia) in South America on April 27 and 28, 2022.

The event was hosted by the Universidad de Aquino in Bolivia, the largest private university with nearly 40,000 students. The university has a College of Medicine and a state-of-the-art digitized Martin Dockweiler University Hospital.

**Dr. Oh** was one of the international speakers invited to participate in this event where he represented North America. He delivered his topic on "Respiratory Care of Patients with COVID-19 Infection" in several campus locations of the university. He translated and delivered his presentations in Spanish.



*Dr. Henry Oh presenting in Bolivia this past April*



## ACS Flashback Members in the News in 2012

Ten (10) years ago, ACS members received the following awards:

CLINICAL SCIENTIST OF THE YEAR	<b>Juliana Szakacs</b>
DIPLOMA OF HONOR	<b>Nina Tatevian</b>
YOUNG CLINICAL SCIENTIST	<b>Kristen Reynolds</b>

The ACS Annual Meeting was hosted by the University of South Alabama on May 23 – 27, 2012, with the theme: “Advances in Pathology for Personalized Medicine.” It was held at Riverview Plaza Hotel.

During the ACS Business Meeting in 2012, **Dr. Roland Valdes**, who was then the ACS president, and chair of the Awards Committee, announced the 2013 awards recipients:

THE GOLD HEADED CANE	<b>John Savory</b>
CLINICAL SCIENTIST OF THE YEAR	<b>Clive Hamlin</b>
DIPLOMA OF HONOR	<b>Vincent DeBari</b>
YOUNG CLINICAL SCIENTIST FOR INNOVATION/SCIENCE	<b>Lori Millner</b>
YOUNG CLINICAL SCIENTIST FOR TECHNOLOGY DEVELOPMENT	<b>Frederick Strathmann</b>
YOUNG CLINICAL SCIENTIST FOR CLINICAL APPLICATIONS	<b>Joshua Bornhorst Kristine Konopka</b>

### Wanted: Your News!

#### AWARDS, NEWS, PROMOTIONS...?

Please send your news of job changes, transfers, promotions, awards, latest projects, etc. to:

**Henry Oh, Ph.D.**, Newsletter Editor,  
at:  
[henry.oh@msn.com](mailto:henry.oh@msn.com).



## Newsletter Trivia Question

Edited by Stephen M. Roper, Ph.D., FACSc

The first person to email the correct answer will have their name mentioned in the subsequent 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

**Reference intervals are key to decision making based on clinical lab results. A widely cited minimum sample size for nonparametric rank order reference interval calculation is  $n = 120$ . Why are at least 120 values required?**

### ANSWER

**No one submitted an answer.**

At least 120 (really only 119) measurements are needed to calculate 90th percentile confidence intervals (CI) for nonparametric reference intervals. Below 119, it is impossible to calculate two-sided confidence intervals for both the lower and upper limits at 90% certainty.

### CURRENT QUESTION

(SUBMITTED BY DR. STEPHEN ROPER)

**Type I tyrosinemia is caused by defects in fumarylacetoacetate hydrolase (EC. 3.7.1.2). Severe forms of the disorder are associated with acute liver failure and renal tubular dysfunction, which may require transplant if untreated. What is the name of the diagnostic metabolite that accumulates in tyrosinemia type 1? What is the name of the medication, approved by the FDA in 2002, that has drastically improved outcomes in tyrosinemia type I?**

### ANSWER

The answer will appear in the next *Clinical Science Trumpet*. The person submitting the first correct answer will have a chance to write the trivia question for the subsequent newsletter.

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

## Individual Annual Donors to ACS

The Association of Clinical Scientists gratefully acknowledges and appreciates the following individual donations to the Association during the past year:

### PATRONS

**Juliana G. Szakacs**

### DONORS

**David Bruns**

### CONTRIBUTORS

**John Parker  
Arvind Nandedkar  
Clive R. Hamlin  
Stephen Wiesner  
Jonathan Krauss  
James Wittliff**



## ► Officers & Executive Committee

**Christopher Crutchfield, PhD, FACSc**  
President

**Yusheng Zhu, PhD, FACSc**  
President Elect

**Shuko Harada, MD, FACSc**  
Vice-President

**Joshua A. Bornhorst, PhD, FACSc**  
Past President

**Jonathan B. Hoyne, PhD, FACSc**  
Secretary (2020-23)

**Erica M. Fatica, PhD, FACSc**  
Treasurer (2022-25)

**Neda Zarrin-Khameh, MD, MPH, FACSc**  
Member, Executive Committee (2021-23)

**Alicia Algeciras-Schimmich, PhD, FACSc**  
Member, Executive Committee (2022-24)

**Lance Van Truong, DO**  
Chair, Young Fellows Section Oversight Committee

**Robert L. Hunter Jr., MD, PhD, FACSc**  
Director of Scientific Sections

**Nina Tatevian, MD, PhD, FACSc**  
Journal Editor-in-Chief

**Charles D. Hawker, PhD, MBA, FACSc**  
Executive Director (non-voting)

## ► 2022-2023 ACS Committees

### PAST PRESIDENTS COUNCIL

Joshua A. Bornhorst, PhD  
Keri J. Donaldson, MD, MSCE  
Philip R. Foulis, MD, MPH  
Robert W. Hardy, PhD  
Charles D. Hawker, PhD, MBA  
M. John Hicks, MD, DDS, PhD  
Peter C. Hu, PhD  
Robert L. Hunter, Jr., MD, PhD  
Kyle C. Kurek, MD  
Roland Valdes, Jr., PhD  
Myra L. Wilkerson, MD

### ATHLETICS COMMITTEE

Joshua A. Bornhorst, PhD, Chair  
Robert L. Hunter, Jr., MD, PhD  
Consolato M. Sergi, MD, PhD  
Neda Zarrin-Khameh, MD, MPH

### AWARDS COMMITTEE

Myra L. Wilkerson, MD, Chair  
Philip R. Foulis, MD, MPH  
Charles D. Hawker, PhD, MBA  
Nina Tatevian, MD, PhD  
Alicia Algeciras-Schimmich, PhD

### CONSTITUTION AND BYLAWS COMMITTEE

Shuko Harada, MD, Chair  
Vincent A. DeBari, PhD  
Laurence M. Demers, PhD  
Clive R. Hamlin, PhD  
Charles D. Hawker, PhD, MBA

### MEMBERSHIP AND MENTORING COMMITTEE

Yusheng Zhu, PhD, MS, Chair  
Alicia Algeciras-Schimmich, PhD  
Meenakshi Bidwai Bhattacharjee, MD  
Roger Bertholf, PhD  
Jonathan B. Hoyne, PhD  
Peter C. Hu, PhD  
Consolato M. Sergi, MD, PhD  
Roland Valdes, Jr., PhD  
Myra L. Wilkerson, MD

### MUSIC AND ARTS COMMITTEE

Myra L. Wilkerson, MD, Chair  
Philip R. Foulis, MD, MPH  
Frederick L. Kiechle, MD, PhD  
Neda Zarrin-Khameh, MD, MPH  
Henry Oh, PhD

### NOMINATING COMMITTEE

Joshua A. Bornhorst, PhD, Chair  
Philip R. Foulis, MD, MPH  
Robert W. Hardy, PhD  
M. John Hicks, MD, DDS, PhD  
Kyle C. Kurek, MD  
Myra L. Wilkerson, MD

### PUBLICATIONS COMMITTEE

Nina Tatevian, MD, PhD, Chair  
Kyle C. Kurek, MD, Co-Chair  
Mustafa Barbhuiya, PhD  
Robert E. Brown, MD  
Vincent A. DeBari, PhD  
Armand B. Glassman, MD  
M. John Hicks, MD, DDS, PhD  
Frederick L. Kiechle, Jr., MD, PhD  
Yusheng Zhu, PhD, MS

### PROGRAM COMMITTEE (MAY, 2023 ANNUAL MEETING)

Joshua A. Bornhorst, PhD, Chair  
Jonathan B. Hoyne, PhD, Co-Chair

### YOUNG FELLOWS SECTION OVERSIGHT COMMITTEE

Lance Van Truong, DO, Chair  
Jonathan B. Hoyne, PhD  
Diana Morlote, MD  
Stephen M. Roper, PhD

### VIRTUAL AND HYBRID MEETINGS OVERSIGHT COMMITTEE

Jonathan B. Hoyne, PhD, Chair  
Christopher Crutchfield, PhD  
Shuko Harada, MD  
Robert W. Hardy, PhD  
Charles D. Hawker, PhD, MBA  
M. John Hicks, MD, DDS, PhD  
Stephen M. Roper, PhD  
Consolato M. Sergi, MD  
Roland Valdes, Jr., PhD

### OFFICERS OF THE AUXILIARY (2021-2022)

President: Dorothy Brown  
Secretary: Charlotte Cannon  
Treasurer: Adrienne Hopfer  
Historian: Becky Hunter



## 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: [henryoh@isu.edu](mailto:henryoh@isu.edu).

Publisher: Association of Clinical Scientists  
Editor: Henry Oh, PhD, FACSc  
Graphic Editor: Michael Hawker, March, MS, Adobe Cert. Associate