

Clinical Science

Trumpet

Newsletter of the Association of Clinical Scientists

Vol 31, No 2
April 2011

Annual
Meeting in
Louisville

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Information

The Association of Clinical Scientists regrettably reports the passing of
Dr. F. William Sunderman, Jr. Please see pages 8 and 9.

Annual Meeting in Louisville, Kentucky, on 18 to 22 May 2011

Invitation

The *Association of Clinical Scientists* will hold its 131st Annual Meeting in Louisville, Kentucky, on 18 to 22 May 2011. The headquarters will be the Seelbach Hilton Hotel. The meeting will be hosted by the University of Louisville Medical School. Drs. Joseph C. Parker Jr. and Roland Valdes Jr., Co-Chairs of the Program Committee, cordially invite you to attend. The program will focus primarily on *Genomics and Personalized Medicine*.

Schedule

The meeting registration desk will open and committee meetings will be held at the Seelbach Hilton Hotel on Wednesday afternoon and evening. Scientific sessions will be held at the hotel on Thursday and Saturday. The Friday morning session will be held at the University of Louisville. In addition to a session of short papers, there will be a guided tour of the Pharmacogenetics Laboratory and a demonstration of the various procedures that will provide participants with a working knowledge of a clinical pharmacogenetics laboratory.

Scientific Program

The program (pages 4 to 6) features seminars on genomics, proteomics, and personalized medicine, and includes a workshop on

pharmacogenetics at the University of Louisville's Pharmacogenetics Laboratory. In addition, there are sessions on molecular and cell biology, oncology, clinical science in practice, cell and tissue pathology, and several other clinical science topic areas. The total of 53 presentations cover many important and innovative developments in pathology, laboratory medicine, and clinical practice.

Annual Reception and Banquet

The banquet on Friday evening will feature a light-hearted address by Steven I. Hajdu, a long time Association member and pathologist from Westlake Village, California who will speak on "Historical Blunders in Pathology." The program will also include presentation of the Association's annual awards.

Musical and Art Show

This event on Saturday evening will feature chamber music, art works, handicrafts, and photographs by members and guests. Wine and cheese will be served at the intermission. Myra Wilkerson is the host and organizer of the event and can be contacted by participants at mwilkerson@geisinger.edu. At this event on Saturday the Association is planning to honor Dr. William Sunderman Jr., the Association's long time Secretary-Treasurer who passed away on April 1

Association of Clinical Scientists

Dani S Zander,
MD, President

Magali J Fontaine,
MD, PhD
Vice-President

Charles D Hawker
PhD, Past-President

Robert L Hunter Jr
MD, PhD, Director
of Scientific Sections

F William Sunder-
man Jr MD,
Secretary-Treasurer

Frederick
Muschenheim MD
Recording Secretary

Other Members of
the Executive
Committee:

Vincent A DeBari,
PhD

Nina Tatevian MD

Myra L Wilkerson
MD

The Association's
address is PO Box
1287, Middlebury,
VT 05753; tel 802
458 3351; fax 802
458 3278; e-mail
clinsci@sover.net;

website: [www.
clinicalscience.org](http://www.clinicalscience.org)

Churchill Downs Tour

On Friday afternoon, participants will enjoy a special bus excursion to the historic Churchill Downs race track, home of the famous annual Kentucky Derby horse race. Coincidentally, this year's race will have been held just two weeks before our visit. In addition to a visit to the Churchill Downs Museum, our outing will include a special private reception at the Churchill Downs Turf Club, hosted by Jim and Mitzi Wittliff.

Athletics

The *Run-for-the-Lilies*, a 2.5 and 5-mile running and/or walking event, will be held early on Saturday morning, organized by James J. Miller and Armand Glassman for the Committee on Athletics.

Accompanying Persons

Participants are invited to bring along their families to enjoy Louisville's many attractions and to join in a program of congenial tours and activities organized by Kathy Valdes and the Association's Auxiliary.

Meeting Registration

The regular registration fee is \$435. Junior members, emeritus members, and non-member residents or post-doctoral fellows may pay a reduced fee (\$295). The registration fee includes one ticket to the reception and banquet. Tickets for the luncheons of scientific sections cost \$30. The musicale and art show is free. The meeting registration form is printed on page 7.

Hotel Accommodations

The Seelbach Hilton Hotel, rated Four Diamonds by AAA, recently underwent a \$12 million renovation. Appearing on the National Register of Historical Places, this luxury hotel is the premier hotel in the state of Kentucky. Built in 1905, it is considered a landmark to "the golden era" with its grand ambiance inspiring author F. Scott Fitzgerald to use the Seelbach as a backdrop for Tom and Daisy Buchanan's wedding in *The Great Gatsby*. The Seelbach's Oak Room restaurant is Kentucky's first and only AAA Five Diamond restaurant.

The special convention rate will be \$149/room (single or double) plus taxes. Currently, the tax rate is 15.01%. The hotel's amenities include the Z-Salon and Spa, a renovated and expanded fitness center, and a business center. The hotel's address is 500 Fourth Street, Louisville, KY 40202, and its

website is www.Seelbachhilton.com. The number of available rooms at the convention rate is limited, so you should make your reservations early by calling the hotel at (800) 333-3399, (502) 585-3200, or by sending a fax to (210) 222-1896.

Please specify that you will attend the Association's meeting. The cut-off date for reservations at the special convention rate is 5 May 2011.

Transportation

Complimentary shuttle service between Louisville International Airport and the Seelbach Hilton Hotel is provided 6 a.m. to 12 midnight, with an approximate travel time of 15 minutes. Guest parking with in/out privileges at the hotel costs \$21/night (self-parking) or \$25 (valet parking).

CME Accreditation

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through joint sponsorship of the College of American Pathologists (CAP) and the Association of Clinical Scientists. The College of American Pathologists is accredited by ACCME to provide continuing medical education for physicians.

CME Credit Designation

The College of American Pathologists designates this live educational activity for a maximum of 20.25 AMA PRA Category 1 creditsTM. Physicians should claim only credit commensurate with the extent of their participation in the activity.

Continuing Education (CE) for Non-Physicians Designation

The College of American Pathologists designates this educational activity for a maximum of 20.25 credit hours of continuing education. Participants should only claim credit hours commensurate with the extent of their participation in the activity.

California, Florida, and ASCP Statements

This activity is approved for continuing education credit in California and Florida. Florida non-physicians must provide their license numbers.

Disclaimer

The content of this CME activity does not necessarily reflect the view or policies of the College of American Pathologists.

Educational Goals

At the end of this educational session the participant should be able to:

(a) Interpret, discuss, appraise, and apply in the clinical arena various recent advances in laboratory techniques for clinical diagnosis and knowledge about clinical science, including clinical biochemistry, immunology, microbiology, hematology, transfusion medicine, toxicology, cell and tissue pathology, informatics, molecular biology, and microbiology, surgical pathology, instrumental analysis, and clinical informatics;

(b) Analyze the molecular circuitry of cancer cells by examining the expression patterns of specific proteins using immunohistochemical techniques, and apply this information to predict the therapeutic responses of individual tumors to modulators of gene expression.

(c) lesions of the respiratory tract,

(d) the rapidly evolving role of the laboratory in personalized healthcare, especially in regard to tumor therapy, pharmacogenomics, and metabolic disorders.

In addition the program addresses the general educational need for surveying the frontiers of clinical science and introducing salient advances into the clinical practice of pathology and laboratory medicine.

Professional Practice Gaps

Four professional practice gaps are the primary focus of this program:

(a) disparity between current practices in transfusion medicine and the recent recognition of ways to improve blood inventory management and to integrate blood coagulation testing into transfusion decisions,

(b) disparity between the state-of-the-art in cancer morphoproteomics and the availability of immunohistochemical profiling of the morphoproteomic patterns of each cancer patient's tumor, to guide individual selection of optimal cancer therapy;

(c) disparity between the state-of-the-art of pathology services in regard to intraoperative consultations in neuropathology and computerized tracking surgical pathology and cervical cytology specimens; and

(d) disparity between current practices in laboratory medicine and new clinical approaches to individualization of laboratory tests, especially in respect to pharmacogenomics.

General Educational Objectives

After attendance at this meeting, the participants should be able to:

(a) discuss knowledgeably the specific clinical advances and research findings that were presented;

(b) decide which advances and findings have applications in their daily work as clinical scientists;

(c) adjust their professional activities and research programs to the prevailing currents of clinical science and medical practice; and

(d) fulfill the learning objectives that are specified for each of the activities that they attended.

Evidence-Based Recommendations

The College of American Pathologists and the Association of Clinical Scientists are dedicated to promoting improvements of quality in healthcare and not a specific proprietary business interest or a commercial interest. Therefore the College of American Pathologists and the Association of Clinical Scientists expect all planners/faculty/authors of these educational activities to make all recommendations and/or planning criteria involving clinical medicine to be based on evidence that is accepted within the profession of medicine as adequate justification for these indications and contraindications in the care of patients.

Methods and Evaluation

This program will use lectures, case discussions, a technical workshop, a tutorial session, and question-and-answer opportunities as primary educational methods. A course evaluation form will provide participants with the opportunity to assess each session and speaker, to identify future educational needs, and to comment on any perceived commercial bias in the presentations.

Disclosure Statements

All faculty, planners, and authors of a CAP educational activity must disclose to the program audience any financial interest or relationship with the manufacturer(s) of any commercial product(s) that may be discussed in the educational activity or with the manufacturer of a product that is directly competitive with a product discussed in the presentation. Relevant financial relationships are considered to be any financial relationships in any amount occurring within the past 12 months that create a conflict of interest.

The College of American Pathologists does not view the existence of these interests or uses as implying bias or decreasing the value to participants. The CAP, along with the Accreditation Council for Continuing Medical Education (ACCME), feels that this disclosure is important for the participants to form their own judgments about each presentation. The program contains a list of the financial disclosure relationships for anyone who was able to affect content of this educational activity.

The CAP does identify and manage all potential conflicts of interest to ensure that all educational activities promote improvements or quality in healthcare and are free of commercial bias for or against a product/service.

131st Meeting of the Association of Clinical Scientists in Louisville, Kentucky, on 18 to 22 May 2011

Headquarters: The Seelbach Hilton Hotel;
Host: The University of Louisville Medical School;
CME Sponsor: The College of American Pathologists

Wednesday, 18 May 2011

- 2:00 pm Meeting registration desk opens
- 2:30 pm Education Accreditation Committee meeting
- 3:30 pm Executive Committee meeting
- 5:00 pm Editorial Board meeting (St. Anthony Club)
- 7:45 pm Executive Committee meeting with Past-Presidents,
Regional Delegates, and Committee Chairs

Thursday, 19 May 2011

Session A: Genomics, Proteomics, and Personalized Medicine

Chairs: Roland Valdes, Jr., & Dani S. Zander

- 8:00 am Welcome. Dani S. Zander, President of the Association;
Joseph C. Parker, Jr., and Roland Valdes, Jr., Co-chairs of
Program Committee
- 8:05 am [1] Pathology and the frontier of personalized medicine.
Roland Valdes, Jr., Louisville, KY
- 8:30 am [2] Claude P. Brown Memorial Lecture: Deciphering the
genomics and proteomics of human cancer to predict clinical
behavior. James L. Wittliff, Louisville, KY
- 9:30 am [3] mTOR opens the door to personalized medicine via
morphoproteomics. Robert E. Brown et al, Houston, TX
- 10:00 am [4] Environmental genomics of L1 retrotransposon:
implications for personalized medicine. Kenneth S. Ramos,
Louisville, KY
- 10:30 am Refreshments

Session B: Genomics, Proteomics, and Personalized Medicine

Chairs: Nina Tatevian & Egil Fosslie

- 10:45 am [5] Novel decision support tools using pharmacogenetics
Kristen K. Reynolds, Louisville, KY
- 11:15 am [6] A high-throughput approach for identifying cancer genes
in tumor specimens. Kyle C. Kurek, Boston, MA
- 11:45 am [7] Technique for determining ERE-binding proteins in
cancer biopsies to assess clinical relevance. Traci L. Krueger
and James L. Wittliff, Louisville, KY
- Noon [8] Xenoestrogen assessment by recombinant estrogen
receptors using a three-tiered approach. Sarah A. Andres
and James L. Wittliff, Louisville, KY
- 12:15 pm Luncheon recess

Luncheon Sponsored by the Sections on Clinical, Science in Practice³ and on Clinical Molecular Biology & Genetics

Chairs: Frederick Muschenheim & Frederick L. Kiechle

- 12:25 pm [9] Pathology: past, present, and future.
Ronald J. Elin, Louisville, KY

Session C: Molecular and Cell Biology

Chairs: M. Kent Froberg & Kyle C. Kurek

- 1:45 pm [10] Donor-specific tolerance in mismatched renal transplant
recipients: from bench to bedside. Suzanne T. Ildstad, Louisville,
KY
- 2:15 pm [11] Mitochondrial dysfunction in the etiology of Parkinson's
disease. Egil Fosslie, Chicago, IL
- 2:45 pm [12] Stem cells in the lung: current concepts. Dani S. Zander,
Hershey, PA
- 3:15 pm Refreshments

Session D: Oncology

Chairs: Robert E. Brown & Steven I. Hajdu

- 3:30 pm [13] Hedgehog pathway genes and the p53 gene cluster in
patients with multiple myeloma. Peter Hu, Houston, TX
- 4:00 pm [14] The X-files: mystery surrounds the prostate cancer-
associated retrovirus, XMRV. Jeanne M. Rhea et al, Atlanta, GA
- 4:30 pm [15] β -hCG producing tumors. Emily H. Turney et al, Louisville,
KY
- 4:45 pm [16] Expression of fatty acid synthase in thyroid carcinomas of
follicular origin. Jing Liu and Robert E. Brown, Houston, TX
- 5:00 pm [17] Oxidative stress in Cr(VI)-induced carcinogenesis. Xianglin
Shi, Lexington, KY
- 5:15 pm [18] The possible influence of bacterial translocation on cancer
cachexia. Dianliang Zhang, Qingdao, Shandong, China
- 5:30 pm 5:30 pm Adjournment
- 7:30 pm Musicales rehearsal (organized by Myra L. Wilkerson)
- 7:30 pm Awards Committee meeting (Frederick Muschenheim, Chair)
- 8:30 pm Nominating Committee meeting (Charles D. Hawker, Chair)

Friday, 20 May 2011

(University of Louisville) (Bus leaves hotel at 7:45 am)

Session E: Clinical Science in Practice

Chairs: Juliana G. Szakacs & Donald T. Forman

- 8:15 am [19] A role of pathologists in patient-centered medical homes. Robert L. Hunter, Houston, TX
- 8:45 am [20] Surgery: The next generation-the role of robotics in surgery. Lynn P. Parker, Louisville, KY
- 9:15 am [21] Frozen-section controlled micrographic surgery with the general pathologist. Rawhi A. Omar, Louisville, KY
- 9:30 am [22] Hyperhomocysteinemia and dietary sulfur deficiency. Kilmer S. McCully and Yves Ingenbleek, Boston, MA, and Strasbourg, France
- 10:00 am [23] Asymmetric dimethylarginine associated with cardiovascular disease, metabolic syndrome, and insulin resistance. Pai C. Kao et al, Rochester, MN
- 10:15 am [24] Digoxin and dihydrodigoxin: quantitation by mass spectrometry and implications for cancer therapeutics. Steven M. Truscott and Roland Valdes Jr., Louisville, KY
- 10:30 am Refreshments

Session F: Workshop on Pharmacogenetics

Chairs: Roland Valdes & Kristen K. Reynolds

- 10:45 am [25] A guided tour of the Pharmacogenetics Laboratory will demonstrate and discuss practical methods for collection and separation of DNA, processing of patient samples collected by different methods, techniques for detection of single nucleotide polymorphisms (SNP), and the development of multiplexing assays. It will provide participants a working knowledge of a clinical pharmacogenetics laboratory.
- 12:15 pm Bus leaves to return to Hotel
- 1:45 pm Bus leaves the Seelbach-Hilton Hotel. A visit to Churchill Downs for participants and accompanying persons
- 5:45 pm Bus will return to the Hotel.

Annual Reception and Banquet

(6:45 pm, Seelbach-Hilton Hotel)

Toastmaster: Dani S. Zander, Hershey, PA

Young Clinical Scientist Award, presented by Armand Glassman to Peter C. Hu, Houston, TX

Diploma of Honor, presented by Robert L. Hunter to Charles D. Hawker, Salt Lake City, UT

Clinical Scientist of the Year Award presented by Magali Fontaine to Roland Valdes, Jr., Louisville, KY

Banquet Address: Historical Blunders in Pathology
Steven I. Hajdu, Los Angeles, CA

Saturday, 21 May 2011

6:15 am Run for the Lilies: 2.5 and 5-mile running event organized by James J. Miller & Armand Glassman for the Committee on Athletics

Session G: Cell and Tissue Pathology

Chairs: Joseph C. Parker, Jr., & Kilmer S. McCully

- 8:00 am [25] Surgical pathology tutorial on interstitial lung disease. Mostafa Fraig and Rafael Perez, Louisville, KY
- 9:30 am [26] Minimizing errors in the practice of breast pathology. Shahla Masood, Jacksonville, FL
- 10:00 am [27] Pathogenesis of early pancreatic lesions in cystic fibrosis. J. Allan Tucker, Mobile, AL
- 10:15 am Refreshments

Session H: Cell & Tissue Pathology

Chairs: Peter Farmer & Shahla Masood

- 10:30 am [28] The astrocyte brain. Joseph C. Parker, Jr., Louisville, KY
- 11:00 am [29] Surgical neuropathology: the intraoperative consultation. John R. Parker, Louisville, KY
- 11:30 am [30] The roles of H&E staining, histochemistry, immunohistochemistry, and electron microscopy in metabolic diseases affecting the liver. Consolato M. Sergi et al. Edmonton, Alberta.
- noon [31] Giant cell reparative granuloma: reparative or neoplastic? Atif A. Ahmed et al, Kansas City, MO
- 12:15 pm Luncheon recess (see Luncheon presentation, listed after Session J)

Session I: Therapeutics, Toxicology, and Informatics

Chairs: Steven H. Wong & Myra L. Wilkerson

- 8:00 am [32] Application of pharmacogenomics to pain management: clinical and forensic implications. Saeed A. Jortani et al, Louisville, KY
- 8:30 am [33] Diagnostic accuracy and interpretation of urine drug testing for pain patients. Amadeo J. Pesce et al, San Diego, CA
- 8:45 am [34] Genotyping CYP2C19 for carisoprodol/meprobamate intoxication as part of emerging transjudicial personalized justice. Steven H. Wong et al, Milwaukee, MN
- 9:00 am [35] Clopidogrel assessment: genotyping or functional assay? Clive R Hamlin, Cleveland, OH
- 9:15 am [36] Urinary ethanol metabolites following intensive exposure to a hand sanitizer. Roger Bertholf and Gary M. Reisfeld, Jacksonville, FL
- 9:30 am [37] QAZoom: a software tool for tracking cervical cytology workload and diagnostic rates by preparation type. Myra L. Wilkerson, Wilkes-Barre, PA
- 10:00 am Refreshments

Saturday, 21 May 2011 (continued)

Session J: Informatics, Biotechnology, and Clinical Chemistry

Chairs: Charles D. Hawker & Sidney M. Hopfer

- 10:15 am [38] Laboratory informatics from instruments to internet. James J. Miller, Louisville, KY
- 10:45 am [39] Weak biomarker associations expressed as risk/odds ratios. Stanley S. Levinson, Louisville, KY
- 11:15 am [40] Comparative analysis of physical and digital representations of immunofixation electrophoretic gel patterns. Joshua A. Bornhorst, Little Rock, AR
- 11:30 am [41] Improved patient safety with CLSI standard AUTO12-A on specimen label format. Charles D. Hawker, Salt Lake City, UT
- 11:45 am [42] Predicting the development of diabetes using hemoglobin A1c. Philip R. Foulis et al, Tampa, FL
- noon [43] Fallacies of the reference interval: magnesium. Ronald J. Elin, Louisville, KY
- 12:15 am Luncheon recess

Luncheon sponsored by the Sections on Hematology & Transfusion Medicine & Clinical Science in Practice

Chairs: John Lazarchick & Philip R. Foulis

- 12:25 pm [44] Algorithmic and consultative integration of transfusion medicine and coagulation: A working model for personalized medicine. Robert E. Brown, Houston, TX
- 1:25 pm Adjournment

Session K: Hematology and Transfusion Medicine

Chairs: Jonathan Krauss & Jacek M. Polski

- 1:30 pm [45] Novel strategies in blood inventory management. Magali J. Fontaine, Stanford, CA
- 2:00 pm [46] Warfarin pharmacogenomics: economics and outcomes. Jonathan Krauss, Augusta, GA
- 2:30 pm [47] The new era of anticoagulation. John Lazarchick, Charleston, SC
- 2:45 pm [48] Beyond blasts: flow cytometric immunophenotyping of granulocytes and monocytes in myeloid neoplasms. Jacek M. Polski, Mobile, AL
- 3:00 pm Refreshments

Session L: Clinical Science in Practice

Chairs: Armand Glassman & Raymond W. Ryan, Jr.

- 3:15 pm [49] HIV-1 drug resistance testing. Robert L. Barker and Mary Bishop, Louisville, KY
- 3:45 pm [50] Influenza genome: applications for pathogenesis, prevention, and patients. Armand B. Glassman, Charleston, SC
- 4:00 pm [51] When is carpal tunnel syndrome not just carpal tunnel syndrome? M. Kent Froberg, Virginia, MN
- 4:15 pm [52] Analysis of misdiagnosis of four cases of tuberculosis of the thyroid. Frances Shih et al, Winnipeg, Manitoba

Business Meeting of the Association

4:30 pm
Dani S. Zander, President

Musicale and Art Show

7:30 pm
with wine and cheese reception during intermission.
Organized by Myra L. Wilkerson of the
Committee on Music and Fine Arts

Annals of Clinical & Laboratory Science Online

The *ACLS-Online*, produced with Stanford University's HighWire Press, contains the full text of the *Annals* back to 2001. The internet address of *ACLS-Online* is <http://www.annclinlabsci.org>. To access the *Annals*, members of the Association use the ID number printed at the top of each address label for the *Trumpet* and the *Annals of Clinical & Laboratory Science*.

Association Diplomas

Association members may purchase a hand-engrossed diploma that certifies his/her fellowship in the Association. The diplomas are signed by officers of the Association and affixed with the Association's official seal. To order a diploma, send a check or credit card payment for \$45 to the Secretary-Treasurer's office. The engrossing and signing of diplomas is performed each year in December and May, so diploma orders must be received by early November or early April.

ASSOCIATION OF CLINICAL SCIENTISTS

Registration Form for the Annual Meeting

in Louisville, KY, on 18 to 22 May 2011

| | | | |
|-------------|----------------|----------------|--------|
| _____ | _____ | _____ | _____ |
| Last Name | First Name | Initial | Degree |
| _____ | | _____ | |
| Institution | Street Address | | |
| _____ | | _____ | |
| City | State | Zip | |
| _____ | | _____ | |
| Telephone # | Fax # | e-mail address | |
| _____ | _____ | _____ | |

| | No. of persons | Charge (\$) |
|--|----------------|---------------|
| Meeting Registration (\$435 Regular; \$295 Junior or Emeritus) (includes one ticket to the Reception and Banquet) | _____ | _____ |
| Thursday Lunch - Section on Clinical Molecular Biology and Genetics (\$30) | _____ | _____ |
| Friday Afternoon - Special Excursion to Churchill Downs (\$30) | _____ | _____ |
| Friday Evening - Additional Guest Ticket for Reception and Banquet (\$85) | _____ | _____ |
| Saturday Lunch - Section on Clinical Science in Practice (\$30) | _____ | _____ |
| Saturday Evening - Musicales & Art Show, with wine and cheese reception | _____ | <u>gratis</u> |
| TOTAL PAYMENT ENCLOSED: | | _____ |

Please send this form with a check, payable to Association of Clinical Scientists, to F William Sunderman Jr MD, PO Box 1287, Middlebury, VT 05753. Alternatively, you may charge American Express, Visa, or MasterCard (circle which one). Please give your credit card number and expiration date, and sign below. If you pay by credit card, you may send this form by fax to 802 458 3278. Cancellation with full refund will be accepted until 18 April 2011.

Card No.: _____ Expiration (mo, year): _____

Signed: _____ Date: _____

F. William Sunderman, Jr., M.D, 1931-2011

Dear Friends:

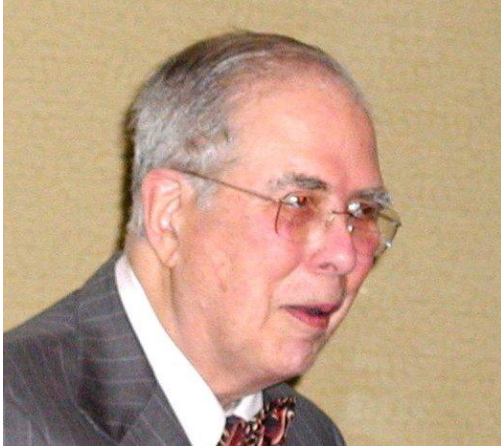
It is with great sadness that we report the passing of William Sunderman, Jr., MD, on Friday, April 1. Bill became President of the Association of Clinical Scientists in 1965 and served as Secretary-Treasurer of the Association since 1968, a period spanning more than 42 years. Over those decades, Bill also managed the Association's annual spring meeting. In addition, he was Editor of the Annals of Clinical and Laboratory Science and his superb editing skills maintained the journal's status of very high quality, accepting on average only about a third of the manuscripts submitted. Bill received the Association's Clinical Scientist of the Year Award in 1976, the Gold-Headed Cane Award in 1998, and the Diploma of Honor in 2007. He delivered the Claude P. Brown Memorial Lecture in 1988 on the subject of Oncogenes, Finger-Loops, and Metals. At the time of his passing, Bill was 79.



The Association will honor Bill at the Annual Meeting in Louisville, May 18-22 and an obituary will be published in the Annals of Clinical and Laboratory Science.

On behalf of the Association of Clinical Scientists, we offer our condolences to Bill's family and friends.

Dani S. Zander, MD
President
Association of Clinical Scientists



F. WILLIAM SUNDERMAN JR., M.D. Middlebury, Vermont Frederick William Sunderman Jr., died of metastatic cancer in Middlebury, on April 1, 2011. He was 79. Bill was born June 1931, in Philadelphia, Pa., to Clara Louise Sunderman and F. William Sunderman Sr. He graduated as valedictorian from Central High School in Philadelphia in 1948, and graduated a BS degree from Emory University in Atlanta in 1952. In 1955 he earned an MD degree from Jefferson Medical College in Philadelphia. From 1958 to 1960 he was a lieutenant in the US Navy, serving as Chief of the Clinical Chemistry Service at the US Naval Medical School in Bethesda, Md. From 1960 to 1961 he was the chief of the Clinical Chemistry Service at the National Institutes of Health in Bethesda, Md. Beginning in 1961 Bill began a sustained and prolific career as a medical school professor, first at Thomas Jefferson University in

Philadelphia. He was subsequently a professor of pathology and laboratory medicine at the University of Florida, Gainesville, from 1964 to 1968. In 1968 Bill moved to Farmington, Conn. where he was a professor and chair of pharmacology, nutrition, and toxicology at the University of Connecticut Medical School until his retirement from the university in 1997. During his distinguished career Bill authored and coauthored hundreds of publications, mostly focused on metal toxicology, with a special emphasis on nickel metabolism and carcinogenesis. In 1997 Bill and his wife Carolyn moved to Whiting, Vt., where he continued his scholarship. From 1997 until his death he was a research professor of pathology at the University of Vermont, and a visiting scholar in chemistry and biochemistry at Middlebury College in Middlebury. He was also the editor of the *Annals of Clinical and Laboratory Science* during his "retirement" years in the Green Mountain State. A critical complement to Bill's career in medical research was his abiding joy for art. Bill was a highly accomplished violist. He integrated his love of art, especially chamber music, with his professional, family and social lives. He will be intensely missed by a remarkable diversity of friends. Many of these friends bonded with Bill and his family through weekly evenings of chamber music. These sessions were typically followed by convivial and uplifting conversation. Bill was consistently optimistic and profuse in his encouragement of friends, colleagues, and family members. This core personality trait helped to inspire compassion and excellence in the lives of many people he encountered. Bill's beloved wife, Carolyn predeceased him in 2002. His brother, Joel Baily Sunderman, and sister, Louise Lehr Sunderman also predeceased him. He is survived by his daughter and son-in-law, Emily L. Sunderman and Michael J. Lee, of Cornwall,; daughter and son-in-law, Elizabeth R. Sunderman and Robert C. Hauck of Salt Lake City, Utah; son and daughter-in-law, Frederick W. Sunderman III and Kathleen L. Sunderman of Freeland, Mich.; mother-in-law, Frances L. Reynolds of Chestertown, Md.; grandson, Carter S. Lee of Cornwall; granddaughters, Hailey L. and Caitlin E. Hauck of Salt Lake City; grandson, F. William Sunderman IV, and granddaughter, Chloe E. Sunderman of Freeland, Mich.

