The Association of Clinical Scientists regretfully 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.
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 musical 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 credits™. 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
9:30 am [3] mTOR opens the door to personalized medicine via morphooneomics. Robert E. Brown et al, Houston, TX
10:30 am Refreshments

Session B: Genomics, Proteomics, and Personalized Medicine
Chairs: Nina Tatevian & Egil Fosslien
10:45 am [5] Novel decision support tools using pharmacogenetics Kristen K. Reynolds, Louisville, KY
11:45 am [7] Technique for determining ERE-binding proteins in cancer biopsies to assess clinical relevance. Traci L. Krueer and James L. Wittliff, Louisville, KY
Noon [8] Xenestrogen 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

Session C: Molecular and Cell Biology
Chairs: M. Kent Froberg & Kyle C. Kurek
3:15 pm Refreshments

Session D: Oncology
Chairs: Robert E. Brown & Steven I. Hajdu
4:00 pm [14] The X-files: mystery surrounds the prostate cancer-associated retrovirus, XMRV. Jeanne M. Rhea et al, Atlanta, GA
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. Dianlian Zhang, Qingdao, Shandong, China
5:30 pm 5:30 pm Adjournment
7:30 pm Musicale 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
9:30 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
10:30 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.

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**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

11:00 am [29] Surgical neuropathology: the intraoperative consultation. John R. Parker, Louisville, KY
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. Saced 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, Milwaukee, MN
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

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**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

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Saturday, 21 May 2011 (continued)

Session J: Informatics, Biotechnology, and Clinical Chemistry
Chairs: Charles D. Hawker & Sidney M. Hopfer

10:15 am Laboratory informatics from instruments to internet. James J. Miller, Louisville, KY
10:45 am Weak biomarker associations expressed as risk/odds ratios. Stanley S. Levinson, Louisville, KY
11:15 am Comparative analysis of physical and digital representations of immunofixation electrophoretic gel patterns. Joshua A. Bornhorst, Little Rock, AR
11:30 am Improved patient safety with CLSI standard AUTO12-A on specimen label format. Charles D. Hawker, Salt Lake City, UT
11:45 am Predicting the development of diabetes using hemoglobin A1c. Philip R. Foulis et al, Tampa, FL
noon 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 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 Novel strategies in blood inventory management. Magali J. Fontaine, Stanford, CA
2:00 pm Warfarin pharmacogenomics: economics and outcomes. Jonathan Krauss, Augusta, GA
2:30 pm The new era of anticoagulation. John Lazarchick, Charleston, SC
2:45 pm Beyond blasts: flow cytometric immunophenotyping of granulocytes and monocytes in myeloid neoplasms. Jacek M. Polski, Mobile, AL
3:00 pm Refreshments

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 - Musicale & Art Show, with wine and cheese reception

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.