



Clinical Science Trumpet

Newsletter of the Association
of Clinical Scientists

Final Program and Meeting Schedule

Vol 34, No 1
April
2014

Annual
Meeting at
Amelia Island,
FL
May 28-31, 2014

Final
Program

Announcement
of Young Fellows
Section Luncheon

Proposed Bylaws
Amendments

Meeting
Registration
Form

The 134th Meeting of the *Association of Clinical Scientists* will be held at the Omni Amelia Island Plantation Resort near Jacksonville, Florida on May 28 to 31, 2014. Our 2006 meeting was also at Amelia Island. The program theme will be *Frontiers in Transfusion Medicine*. Dr. Roger Bertholf, Chair of the Program Committee, cordially invites you to attend this outstanding meeting, which will be hosted by The Blood Alliance and the University of Florida College of Medicine / Jacksonville.

In addition to a session on the meeting theme, other sessions on Thursday afternoon, Friday morning and all day Saturday will include reviews and research papers from the Sections on Clinical Biochemistry and Biotechnology, Molecular Biology and Genetics, Clinical Immunology and Microbiology, Therapeutics and Toxicology, Cell and Tissue Pathology, and Clinical Science in Practice. The Friday morning half day session will include a tour of The Blood Alliance in Jacksonville, FL.

The Program Committee, Roger L. Bertholf, PhD, Chair, James D. Peele, PhD, Jonathan Hoyne, PhD, Anwer Siddiqi, MD, Marsha F. Bertholf, MD, Agnes Aysola, MD, Yvette McCarter, PhD, Shahla Masood, MD, and Robert L. Hunter, Jr., MD, PhD has done a splendid

job assembling an outstanding program.

The Abraham J. Gitlitz Memorial Lecture will be delivered by Magali J. Fontaine, MD, PhD on "The Most Significant Changes in Blood Banking in the Last Ten Years."

The following individuals will receive awards at this meeting: Clinical Scientist of the Year: Kyle C. Kurek, MD (Boston); Diploma of Honor: Amadeo J. Pesce, PhD (San Diego); and Young Clinical Scientist: Christina M. Jacobsen, MD (Boston).

Social events will include the Annual reception and banquet on Friday evening, which will include the Awards presentations. The banquet speaker will be Keith H. Ashley, Ph.D., Research Coordinator, Archaeology Laboratory, in the Department of Sociology & Anthropology at the University of North Florida. And on Saturday evening, the Association will host the annual musicale and art show, featuring chamber music and an exhibition of art, photographs, and handicrafts by members and guests.

Friday afternoon is open for participants to enjoy the various amenities of the Amelia Island Plantation Resort, including golf, tennis, health club, spa, kayaking, hiking trails, two swimming pools, a 3.5 mile beach, Segway™ tours, and a Nature Center. Those participants wishing to play golf should contact Dr. Roger Bertholf (904-244-5076), who has arranged a couple of tee times.

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Frontiers in Transfusion Medicine
134th Meeting of the Association of Clinical Scientists
in Jacksonville, Florida, May 28 – 31, 2014
Headquarters: Omni Amelia Island Plantation Resort
Co-Hosts: The Blood Alliance and
University of Florida College of Medicine / Jacksonville
CME Sponsor: The American Society of Clinical Pathology

Wednesday, 28 May
(Amelia Island Plantation Resort)

- 2:30 pm Meeting registration desk opens (Racquet Park Lobby)
- 3:00 pm Executive Committee meeting (Osprey Room)
- 5:30 pm Editorial Board reception (Ibis Room)

**Thursday, 29 May (Amelia Island
Plantation Resort)**

Session A
Blood Banking and Transfusion Medicine
(Heron Room)

- 8:00 am Welcome. Kilmer S McCully, President of the Association
- 8:10 am [1] Abraham J Gitlitz Memorial Lecture: The most significant changes in blood banking in the last 10 years. Magali Fontaine, Baltimore, MD
- 9:00 am [2] Human T-cell lymphotropic viruses types I/II: Blood bank considerations. Armand B Glassman, Charleston, SC
- 9:30 am Refreshments (Racquet Park Lobby)
- 9:50 am [3] 5% Albumin and fresh frozen plasma (AFFP) vs fresh frozen plasma (FFP) as replacement fluid in plasma exchange for thrombotic thrombocytopenia purpura. Fouad N Boctor, Manhasset, NY
- 10:20 am [4] Acute hemolytic transfusion reaction caused by an unusual anti-Jk antibody. Gifford Lum, Boston, MA
- 10:50 am [5] Use of low dose of prothrombin complex concentrate (PCC) for reversal of warfarin-induced intracerebral hemorrhage. Fouad N Boctor, Manhasset, NY

**Session B: Luncheon sponsored by the Section
on Hematology and Transfusion Medicine**
Ibis Room

- 11:30 pm [6] Severely bleeding patient, what should the transfusion service do now? Agnes Aysola, Jacksonville, FL
- 12:50 pm Adjournment

Session C
Cell and Tissue Pathology (Heron Room)

- 1:00 pm [7] Vaccine targets for tuberculosis. Robert L Hunter, Houston, TX
- 1:40 pm [8] New guidelines for cervical cancer screening and vaccination. Anwer Siddiqi, Jacksonville, FL
- 2:10 pm [9] Diagnostic value and accuracy of imprint cytology evaluation during image-guided core needle biopsies. Jinous Sareman, Jacksonville, FL
- 2:40 pm Refreshments (Racquet Park Lobby)

Session D
Oncology (Heron Room)

- 3:00 pm [10] Somatic mutations of PIK3CA in lymphatic malformations. Kyle C Kurek, Boston, MA
- 3:30 pm [11] Lung biomarkers, from bench-top to bedside. Zhiqiang Wang, Jacksonville, FL
- 3:55 pm [12] Cytogenetic, immunophenotypic, and clinical profiling of hyperleukocytic variant of chronic lymphocytic leukemia. Haytham Abdelrahman, Orlando FL
- 4:20 pm [13] Single cell characterization of heterogeneity in circulating tumor cells. Lori M Millner, Louisville, KY
- 4:45 pm [14] Sirt1 expression in B-cell acute lymphoblastic leukemia. Kristine Konopka, Houston, TX
- 5:10 pm [15] Improving the pathological diagnoses in cancer registries. Philip Foulis, Tampa, FL
- 7:30 pm Musicales rehearsal (organized by Myra L. Wilkerson) (Osprey Room)
- 7:30 pm Awards Committee (location TBA)
- 8:30 pm Nominating Committee (location TBA)

Friday, 30 May

- 6:45 am The bus leaves Racquet Park for The Blood Alliance for today's sessions

Session E
Clinical Practice in Transfusion Medicine:
Visit to a Regional Blood Center
The Blood Alliance

- 8:00 am [16] Legal and regulatory aspects of transfusion medicine. Jackson Snyder, Rockville, MD
- 8:50 am [17] Hemolytic disease of the newborn involving antibody to U antigen: A case report, Jaime Campbell, Jacksonville, FL
- 9:10 am [18] Jehova's Witnesses: Developing therapeutic options for coagulation factor deficiencies in this population. Amanda Tchakarov, Houston, TX
- 9:30 am [19] Antibody development in a patients from a large tertiary hospital. Dawn Butler, Jacksonville, FL

9:50 am Refreshments

10:15 am Tour of The Blood Alliance: Receipt, testing, storage, and release of blood products; blood center administration.

11:30 am The bus leaves The Blood Alliance to return to Racquet Park

1:00 pm Luncheon meeting of the Young Fellows Section (ticket required) location TBA in final program, see page 4

Afternoon free for participants to enjoy the resort's amenities

Annual Reception and Banquet
Egret Room

6:30 pm Cocktails before the Banquet (Racquet Park Lobby)

7:30 pm Awards Banquet and Seminar
Toastmaster: Kilmer S McCully, West Roxbury, MA
Young Clinical Scientist Award presented to Christina M Jacobsen, Boston, MA

Diploma of Honor presented to Amadeo Pesce, San Diego, CA
Clinical Scientist of the Year Award presented to Kyle C Kurek, Boston, MA

Banquet address: Keith H Ashley, Ph.D., Research Coordinator, Archaeology Laboratory, Department of Sociology & Anthropology, Univ. of N. Florida, "Native American Life Along and Beyond the St. Johns River, Florida (A.D. 900-1200)."

Saturday, 31 May (Amelia Island
Plantation Resort)

6:15 am Run-for-the-Lilies: 2.5- and 5-mile running/walking event organized by Robert Hunter & Consolato Sergi for the Committee on Athletics

7:00 am Breakfast meeting of the Membership Committee, Kyle C Kurek, Chair

Clinical Pathology Track (Heron Room)
Session F: Advances in Laboratory Medicine

- 8:00 am [20] Automation is essential for clinical laboratories to achieve six-sigma quality. Charles D Hawker, Salt Lake City, UT
- 8:20 am [21] Reduction of visceral fat by dietary stearate is mediated by aptosis of preadipocytes. Robert Hardy, Birmingham AL

- 8:40 am [22] Electron lucent microparticles containing oxLDL and *mycoplasma pneumonia* antigens in vulnerable plaques. Renata N Ikegami, São Paulo, Brazil
- 9:00 am [23] Biomarkers for the early diagnosis of sepsis. Alison Woodworth, Nashville, TN
- 9:20 am [24] Safeguarding valuable resources through partnership, technology, and education. Keri J Donaldson, Hershey, PA
- 9:40 am [25] Intussusception with Hamartomatous Polyp as Lead Point In Children: Initial Presentation of Peutz-Jeghers Syndrome. John Hicks, Houston, TX

10:00 am Refreshments (Racquet Park Lobby)

Session G: Molecular Pathology

- 10:20 am [26] Persistent hyperinsulinemic hypoglycemia of infancy (PHHH): Morphoproteomics identifies the mTORC1/RagGTPase and IFG-mTORC2/AKT pathways as therapeutical targets. Robert E Brown, Houston, TX
- 10:45 am [27] A primer on the clinical applications of epigenetics in laboratory medicine. Mark W Linder, Louisville, KY
- 11:10 am [28] The role of epigenetics in precision diagnostics. Beth McNally, Louisville, KY
- 11:35 am [29] Multiplexing immunogenetic methods for live cancer cell enrichment for epigenetic analysis. Katherine Bourcy, Louisville, KY

Anatomic Pathology Track (Ibis Room)

Session H: Anatomic Pathology Case Studies

- 8:00 am [30] Mullerian adenocarcinoma of the uterus with rhabdomyoblastic differentiation and sarcomatous overgrowth in a 39 year old HIV positive female: A morphoproteomic analysis. Mirna N Toukatly, Houston, TX
- 8:10 am [31] Desmoplastic small round cell tumor with atypical immunohistochemical profile and rhabdoid-like differentiation. Li Liang, Houston, TX
- 8:20 am [32] Progression of an analogous cloacal malformation in the male and female fetus: The application of embryology in the pediatric autopsy. Jennifer Dierksen, Houston, TX
- 8:30 am [33] Thymic hyperplasia with unusual resolution of skin papillomas after surgical treatment. Mirna Toukatly, Houston, TX
- 8:40 am [34] Ultrastructural features of geleophysic dysplasia: Role of electron microscopy in diagnosis. John Hicks, Houston, TX
- 8:50 am [35] Pulmonary interstitial glycogenesis: Review of histopathologic, immunocytochemical and ultrastructural features. John Hicks, Houston, TX
- 9:00 am [36] Slide review. Anwer Siddiqi, Jacksonville, FL

10:00 am Refreshments (Racquet Park Lobby)

Session I: Advances in Anatomic Pathology

- 10:20 am [37] Ganglion cells under the electronic lens. Braikhna Yousafzai, Alberta, Canada
- 10:40 am [38] Colonization of small/large bowel and rectum. Catherine Takawira, Alberta, Canada

- 11:00 am [39] Archaesomal microparticles in the serum may differentiate clinical severity in chagasic patients. Maria L Higuchi, São Paulo, Brazil
- 11:20 am [40] Pancreatic nerve innervation during fetal life. Consolato Sergi, Alberta, Canada
- 11:40 am [41] Implementation of morphoproteomics to guide therapy for anterior mediastinal germ cell tumor. Elizabeth M Jacobi, Houston, TX

(Note: Sessions F and G are parallel with Sessions H and I)

Session J: Luncheon sponsored by the Section on Clinical Chemistry and Biotechnology (Ibis Room)

- 12:00 pm [42] The molecular pathogenesis of iron overload. William E Winter, Gainesville, FL

Session K
Clinical Biochemistry and Toxicology (Heron Room)

- 1:30 pm [43] Evaluation of point-of-care (POC) glucose test accuracy performed by different operators. Satya Nandana Narla, Charleston, SC
- 1:50 pm [44] Biphenotypic plasma cell myeloma: Breaking the rules for light chain restriction. Daisy Alapat, Little Rock, AR
- 2:10 pm [45] Challenges to developing and implementing clinical mass spectrometry assays. Jeanne M Rhea, Atlanta, GA
- 2:30 pm [46] A technique to reduce false negative opiate screening results in patients prescribed hydrocodone or hydromorphone. Roger L Bertholf, Jacksonville, FL
- 2:50 pm [47] Long-term evaluation of carryover in a multi-pipette immunoassay analyzer system. Joshua Bornhorst, Little Rock, AR
- 3:10 pm Refreshments (Racquet Park Lobby)

Session L
Clinical Science in Practice

- 3:30 pm [48] Transforming outpatient laboratory medicine: Ongoing UT-Houston-Harris Health experience. Semyon Risin, Houston, TX
- 3:55 pm [49] Utilization of pathology tests and procedures. Jonathan S Krauss, Augusta, GA
- 4:20 pm [50] A non-invasive assay for the diagnosis of obstructive sleep apnea syndrome, Trevor Pitcher, Louisville, KY
- 4:45 pm [51] Evaluation of two molecular MRSA assays: Roche MRSA Advanced and BD Maxä MRSA. Frederick L Kiechle, Hollywood, FL
- 5:15 pm Association Business Meeting (Heron Room)
- 7:30 pm Musicale (Osprey Room), organized by Myra L Wilkerson, Chair of the Committee on Music and Fine Arts
- 8:15 pm Wine and cheese reception at intermission (Egret Room)

Activities of the Auxiliary

Under the leadership of Annina McCully, an excellent program for the Auxiliary is being planned for the Amelia Island annual meeting. The initial activity is a wine and cheese reception in Annina's room Wednesday evening. Also planned is a boat tour around Amelia Island. Check at the registration desk or with members of the Auxiliary for specific details on the planned events.

Informal Luncheon of Young Fellows Section

by Joshua Bornhorst and Kyle C Kurek

The Young Fellows Section of the Association of Clinical Scientists will hold an informal luncheon on Friday after the bus returns participants to Amelia Island. Please see the final program for time and location. **All Fellows and Associate Fellows of the Association who are under the age of 45, or who are still in training or within five years of completion of their training, are automatically members of the YFS.** At this informal gathering, participants will discuss avenues in which the Association can serve to foster the careers of young scientists through leadership development, mentoring, and publication opportunities. This luncheon is a great chance to get to know your peers as well as those on the Executive Committee.

Run-for-the-Lilies

The *Run-for-the-Lilies*, an annual 2.5 or 5.0 mile running and/or walking event, will be held at 6:15 am on Saturday morning. It is being organized by the Athletics Committee (Consolato Sergi, Chair and Robert Hunter) and will be along the beautiful grounds of the Amelia Island Plantation Resort.

Meeting Registration

The regular full registration fee is \$535. Emeritus Members, Junior Members, and non-member residents or post-doctoral fellows may pay a reduced fee (\$275). Full registration includes a ticket to the reception and banquet on Friday evening. There is also a special one day registration on Saturday available for \$125, which includes the Saturday luncheon and CME. Extra banquet tickets are \$95. The two luncheon seminars are \$40 each. The Young Fellows Section luncheon on Friday is \$20. Residents and fellows presenting papers will receive a complimentary registration for the day of their presentation, but this excludes tickets to the luncheons and banquet.

In order to obtain Continuing Medical Education (CME) credits, one must register for the full meeting (the three options above). One day complimentary registrations without any CME are permitted for speakers attending just the day of their lecture. To obtain this registration send an email to the Association's email address clinisci@ascp.org. Please provide your full contact information. This complimentary registration is not available through the On-line registration system noted below.

Hotel Accommodations

The Omni Amelia Island Plantation Resort, 39 Beach Lagoon, Amelia Island, FL 32034, phone (904) 261-6161, fax (904) 321-5046 (web site: www.omnihotels.com/FindAHotel/AmeliaIsland.aspx) is the headquarters hotel for the meeting and most activities. This legendary, AAA Four Diamond resort completed an \$85 million renovation in the spring of 2013. Nestled at the tip of a barrier island off the Northeast Florida coast, this 1350 acre resort and plantation features luxurious oceanfront accommodations, family-friendly activities, grand on-site meeting spaces, and nine dining options from gourmet to casual.

Your relaxation options include the largest multi-tiered pool deck in Northeast Florida, which features an adults-only infinity edge pool, a 10,000 square foot family-friendly pool, Splash Park water playground for the kids, two hot tubs, and oversized fire

pits. You can also stroll down 3.5 miles of pristine beach or spend an afternoon kayaking or paddle boarding through Amelia Island's preserved marshlands. For golfers, the resort has three Audubon International Certified Sanctuary golf courses, designed by Pete Dye, Bobby Weed and Tom Fazio, and Dr. Bertholf has arranged for two tee times for those interested. To see if there is still room for you at one of those times, please call him at 904-244-5076. For tennis buffs, this number 2 tennis resort on Florida's East coast (per Tennis Magazine) features 23 Har-Tru® tennis courts with a pro shop and Cliff Drysdale Tennis Professionals.

The special convention rate is \$219 for Resortview (Villas) guestrooms or \$269 for Oceanfront guestrooms, which includes a daily resort service fee, and taxes (currently, 11%). The total cost per day for each room type with taxes is \$240.89 for Villas and \$298.59 for Oceanfront. The Villas require a two night deposit and have a 14-day cancellation requirement. The Oceanfront rooms require a one night deposit and have a 72 hour cancellation requirement. There is a link on the Association website for on-line registration.

The cut-off date for room reservations at the guaranteed conference rate is Monday, April 28th, 2014. Please do not wait until the last minute to obtain your room. Amelia Island is a premier resort destination, and the Omni resort will not extend our meeting rates beyond the cut-off date of April 28, 2014. The rack rate if you miss the cut-off date is currently \$299 plus taxes and fees.

Transportation

The Omni Amelia Island Plantation Resort is 29 miles from Jacksonville International Airport. The resort's Transportation Department provides direct service to and from the airport with no other hotel stops. 72 hour advance reservations are required and can be made by calling 904-261-6161. Reservations that are requested with less than 72 hour notice cannot be guaranteed. The shuttle service fee of \$60 per person each way includes a 10% service charge, fuel surcharge, and airport fees, but not taxes. Alternatively, taxis are available at the airport. The estimated taxi charge to the Amelia Island Plantation Resort is \$55-60 with no reservation required.

Proposed Bylaws Amendments

The Executive Committee has approved amendments to the Bylaws that eliminate unnecessary functions. When Dr. Sunderman passed away, the Executive Committee was faced with dividing the many services he performed for the Association among members who volunteered to serve in addition to normal academic or laboratory responsibilities. Three new positions (Secretary, Treasurer, and Editor of the Annals) were created and filled. However an additional position of Meeting Coordinator was also created, but was never filled and it has now been determined that this position is not needed. In addition, the Executive Committee determined that the Scientific Council and Regional Delegates were outdated elements of our governance that were no longer used and no longer served any purpose. The proposed Bylaws amendments remove all references to Meeting Coordinator, Scientific Council, and Regional Delegates. Changes from the current Bylaws are in red.

Constitution

Article VI: Officers and Standing Committees

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

Bylaws

~~Article VI: Meeting Coordinator~~

~~Section 1. Appointment: The Executive Committee appoints a Meeting Coordinator for a one-year term. Reappointment is continuous except by other action of the Executive Committee.~~

~~Section 2. Duties: The Meeting Coordinator, working with the Executive Committee, selects appropriate host institutions and cities for the Annual Meeting, confers with potential local meeting Chairs or Co-Chairs, and negotiates with meeting hotels. These decisions and arrangements are approved by the Executive Committee. The Meeting Coordinator obtains meeting contracts from the selected hotels which are then signed by the Treasurer. The Meeting Coordinator meets with the local meeting committee to develop draft and final meeting programs.~~

Proposed Bylaws Amendments continued on page 8

Award Winners from 2013 Annual Meeting in Boston



Left to Right: Dr. Sidney Hopfer, Chair of Awards Committee with Young Clinical Scientist Awardees – Dr. Kristine E. Konopka, Dr. Joshua A. Bornhorst, Dr. Lori M. Millner, and Dr. Frederick G. Strathmann IV



Dr. Charles Hawker, Secretary of the Association presenting the Association's Diploma of Honor to Dr. Vincent A. DeBari, President of the Association in 2008



Dr. Clive R. Hamlin, recipient of the Clinical Scientist of the Year Award with Dr. Myra Wilkerson who presented the award on behalf of the Association



Dr. Roland Valdes, Jr., and Dr. Roger L. Bertholf flanking Dr. John Savory, who received the Association's Gold Headed Cane Award

(Photos taken by Dr. Paul Jones)

ASSOCIATION OF CLINICAL SCIENTISTS

Registration Form for the Annual Meeting At Amelia island, FL, May 28-31, 2014

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

	No. of Persons	Charge (\$)
Meeting Registration (\$535 Full Registration, Members or Non-Members) (includes one ticket to the Reception and Banquet)	_____	_____
Meeting Registration (\$275, Full Registration, Emeritus, residents, fellows, trainees) (includes one ticket to the Reception and Banquet)	_____	_____
One day full registration for Saturday (includes CME and luncheon)	_____	_____
Complimentary One day Registration for Speakers (excludes banquet and CME)	_____	gratis
Thursday Lunch – Sponsor: Section on Hematology & Transfusion Medicine (\$30)	_____	_____
Friday Luncheon – Young Fellows Section (\$20)	_____	_____
Friday Evening - Additional Guest Ticket for Reception and Banquet (\$95)	_____	_____
Saturday Lunch - Sponsor: Section on Clinical Chemistry & Biotechnology (\$30)	_____	_____
Saturday Evening - Musicale & Art Show, with wine and cheese reception (gratis)	_____	gratis
TOTAL PAYMENT ENCLOSED:	_____	_____

Payment options: (Cancellation with full refund will be accepted until 30 April 2014.)

1. Mail this form with a check, payable to Association of Clinical Scientists, 6431 Fannin Street, MSB2.292 Houston, TX 77030
2. Charge American Express, Visa, or MasterCard (circle which one and complete the blank lines) and fax this form to (713) 344 1144 or (713) 500-0732.
3. Register on-line on the Association website at www.clinicalscience.org.

Credit card type (circle one): Visa MasterCard American Express

Card number _____

Security code (CVV) _____ Expiration date _____

Name on the card _____

Address _____

City _____ State (Province) _____

Country _____ Postal (Zip) code _____

Signature _____

Proposed Bylaws Amendments, continued from page 6

~~Article VII: Scientific Council~~

~~Section 1. Appointment: The President, upon recommendation of the Executive Committee, appoints annually up to seventy-five members who comprise the Scientific Council. These Councilors are to be broadly representative of the scientific interests and expertise of the membership and its geographical distribution.~~

~~Section 2. Duties: The Scientific Council meets annually to consider, advise, and assist in formulating the educational programs and scientific activities of the Association. The Vice President serves as Chair of the Scientific Council.~~

~~Article VIII: Regional Delegates~~

~~Section 1. Appointment: The Executive Committee appoints at least twelve members who serve as Regional Delegates. Appointments are for three-year terms, four members being appointed each year.~~

~~Section 2. Duties: The Regional Delegates have the following responsibilities: (a) promoting membership, (b) hosting meetings, (c) arranging planning sessions for annual meetings, (d) organizing regional or local meetings, and (e) advising the Officers and Executive Committee. The Regional Delegates meet with the Executive Committee at least once each year. The Vice President presides at meetings of the Regional Delegates and coordinates their activities.~~

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