43rd Annual Meeting

Hilton San Francisco Union Square
San Francisco, CA

SEPTEMBER 11-15, 2017

REGISTRATION BROCHURE

EARLY REGISTRATION DEADLINE: JULY 20, 2017

2017.ASHI-HLA.ORG
43rd Annual Meeting
Hilton San Francisco Union Square
San Francisco, CA
SEPTEMBER 11-15, 2017

PROGRAM PLANNING COMMITTEE

CHAIR
Anat Tambur, DMD, PhD, D(ABHI)
Northwestern University
Chicago, IL

ABSTRACT CHAIRS
Patricia Campbell, BMChB, FRCP
University of Alberta
Edmonton, AB, Canada

Daniel Ramon, PhD, D(ABHI), HCLD
Stanford Blood Center HIDPL
Palo Alto, CA

Nicole Valenzuela, PhD
UCLA Immunogenetics Center
Los Angeles, CA

George Vlad, PhD
Columbia University
New York, NY

PLENARY AND SYMPOSIUM SESSIONS
Patricia Campbell, BMChB, FRCP
University of Alberta
Edmonton, AB, Canada

Frans Claas, PhD
Leiden University Medical Center
Leiden, Netherlands

Michael Gautreaux, PhD, D(ABHI)
Wake Forest School of Medicine
Winston-Salem, NC

Howard Gebel, PhD, D(ABHI)
Emory University Hospital
Atlanta, GA

William Hildebrand, PhD, D(ABHI)
University of Oklahoma
Health Science Center
Oklahoma, OK

Peter Nickerson, MD, FRCPC
University of Manitoba
Winnipeg, MB, Canada

Rajalingam Raja, PhD, D(ABHI)
University of California
San Francisco, CA

Elaine Reed, PhD, D(ABHI)
UCLA Immunogenetics Center
Los Angeles, CA

Adriana Zeevi, PhD, D(ABHI)
UPMC Presbyterian
Shadyside Laboratories
Pittsburgh, PA

WORKSHOP CHAIRS
Lynn Nichol, MT, (ASCP) CHS
UPMC Presbyterian Shadyside
Pittsburgh, PA

Donna Phelan, BA, CHS, MT(HEW)
Barnes-Jewish Hospital
St. Louis, MO

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Meeting Coordinator
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Email: vramsay@ashi-hla.org

Continuing Medical Education Accreditation Manager
Sheryl Morgan
Amedco Corporation

MEETING HEADQUARTERS
American Society for Histocompatibility & Immunogenetics (ASHI)
1120 Route 73, Suite 200
Mt. Laurel, NJ 08054
Phone: 856-638-0428
Fax: 856-439-0525
Email: meetings@ashi-hla.org
Website: 2017.ashi-hla.org
LEARNING OBJECTIVES

The 43rd ASHI Annual Meeting will provide updates on basic Immunogenetics and on practice guidelines in clinical histocompatibility and immunogenetics.

The learning objectives are as follow:
1. Describe innovations in Immunotherapies, including the fields of Infectious Disease, Cancer and Autoimmunity.
2. Understand the biology of Plasma Cells and techniques to assess immunoglobulins.
3. Critically analyze approaches used for Precision Medicine and Predictive Analytics.
4. Perform and evaluate new techniques for immune assessment.
5. Identify and implement approaches for recruitment and retention of qualified employees.
6. Recognize new findings from the 17th international workshop.
7. Discuss and critically analyze highlights and recommendations for practice guidelines from the STAR (Sensitization in Transplantation: Assessment of Risk) workgroup.

ACCREDITATION

PHYSICIANS

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of Amedco and the American Society for Histocompatibility and Immunogenetics (ASHI). Amedco is accredited by the ACCME to provide continuing medical education for physicians.

AMA PRA STATEMENT

Amedco designates this live activity for a maximum of 23.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

CHT, CHS, ABHI DIPLOMATES

The American Board of Histocompatibility and Immunogenetics has approved the 43rd Annual Meeting content for a maximum of 33.75 contact hours (9 contact hours for Inspectors’ Workshop and 24.75 contact hours for the meeting) or 5,062.5 CECs (1,35 CECs for Inspector’s Workshop and 3,712.5 CECs for the meeting) of continuing education hours for completing each module.

FULL DISCLOSURE POLICY

All faculty and program organizers participating and planning continuing medical education programs sponsored by ASHI are required to disclose to the program audience any real or apparent conflicts of interest related to their presentation. Full disclosure of faculty relationships will be available onsite.

THE TULIP RUN

ASHI’S 5TH ANNUAL 5K RUN/WALK

Wednesday, September 13, 2017 • 6:30 am – 8:30 am

This will be ASHI’s 5th Annual 5K Run/Walk. Please join us for a morning run or walk through Crissy Field in San Francisco! The fee is $25.00 per person. Proceeds from this event will benefit the Donor Network West! All runners and walkers are welcome!

Thank you to our sponsor of the Tulip Run:

Note: Advance registration is strongly recommended as space is limited. Registration forms, including complete payment, must be received by Monday, August 7, 2017 to guarantee attendance. Additionally, advance registration ensures timely processing of your registration and helps avoid on-site delays.
REGISTRATION INFORMATION

The American Society for Histocompatibility & Immunogenetics offers discounted registration rates if you register by Thursday, July 20, 2017. Registration along with full payment is required by this date in order to qualify for the early registration. Early registration is strongly recommended to ensure timely processing of your registration and to avoid lengthy onsite lines.

REGISTRATION RATES

PRE-MEETING SYMPOSIUM - A RETROSPECTIVE PERSPECTIVE ON HLA • MONDAY, SEPTEMBER 11, 2017

<table>
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<tr>
<th>REGISTRATION TYPE</th>
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ANNUAL MEETING • MONDAY, SEPTEMBER 11, 2017 – FRIDAY, SEPTEMBER 15, 2017

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<th>REGISTRANT TYPE</th>
<th>EARLY BIRD (Ends Thursday, July 20, 11:59 PM EST)</th>
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<td>Guest***</td>
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</table>

* Members of EFI & APHIA will receive ASHI member prices if proof of membership is submitted to ASHI Headquarters at vramsay@ashi-hla.org.
** Students and Fellows must send a letter from their supervisor certifying status to ASHI at vramsay@ashi-hla.org.
*** Guests may attend the Welcome Reception, Poster Reception and Closing Reception only. Guests are not able to access the Exhibit Hall or scientific programming.

CANCELLATION POLICY

All cancellation requests must be made in writing by Friday, August 11, 2017, either emailed to Victoria Ramsay at vramsay@ashi-hla.org or mailed to ASHI Annual Meeting, Attn: Victoria Ramsay, 1120 Route 73, Suite 200, Mount Laurel, NJ 08054. There will be no refund for cancellations made after Friday, August 11, 2017 or for “no shows”. A $75 processing fee will be charged for all full registration cancellations marked on or before Friday, August 11, 2017. Refunds will be processed after the meeting.

LETTER OF INVITATION

Letters of invitation are available to registered participants only. Once you are registered, please email vramsay@ashi-hla.org for an official letter of invitation.

HOTEL INFORMATION

ASHI has negotiated a discounted room rate at the Hilton San Francisco Union Square for all attendees, exhibitors and supporters. Hotel rooms at the discounted group rate are limited and available on a first-come, first-served basis.

OFFICIAL HOST HOTEL

Hilton San Francisco Union Square
333 O’Farrell Street
San Francisco, CA 94102

ASHI Discounted Rate | Room Rate
---------------------|-----------
Classic Room         | $284.00
Deluxe Room          | $295.00
Towers Room          | $327.00

Housing Deadline is Monday, August 21, 2017

To book your reservation online visit: https://aws.passkey.com/go/ASHI2017

If you would like to make a reservation via telephone: +1-415-771-1400

ADDITIONAL ITEMS TO PURCHASE

ASHI 5K Run/Walk | $25.00
Hilton San Francisco Union Square
San Francisco, CA

HILTON HONORS REWARD PROGRAM
Hilton Honors Members receive complimentary WiFi in their guest rooms throughout their stay, Digital Check-In with the Hilton Honors app, Late Check Out, Express Check Out and the 2nd guest stays free.

If you are currently not a Hilton Honors Member, please go to http://hiltonhonors3.hilton.com/en/index.html and click Join in the top right corner of the page to join for free and receive free internet in your guest room during your stay at the Hilton San Francisco Union Square.

IMPORTANT HOUSING NOTE
Please be cautious and aware that any solicitation you receive regarding housing services is coming from an outside company that is not endorsed by or affiliated with ASHI in any way. Room reservations made on your behalf by any outside company may not be guaranteed. ASHI is not responsible for any reservations made outside of the ASHI block.

TRAVEL INFORMATION

AIRPORT
The San Francisco International Airport is approximately 14 miles from the Hilton San Francisco Union Square.

GROUND TRANSPORTATION
San Francisco International Airport (SFO) offers plenty of public transportation options including shuttles to the downtown San Francisco hotels. Click here to find convenient shared ride vans.

Taxi Service
Average taxicab fare from San Francisco International Airport to the Hilton San Francisco Union Square is $63. Each taxi will also have an additional fee of $2 for airport pick up. For pick up terminal locations at the San Francisco International Airport, please visit: https://www.flysfo.com/to-from/ground-transportation

Uber
The average Uber fare from San Francisco International Airport to Hilton San Francisco Union Square will range from $25-31.

Lyft
The average Lyft fare from San Francisco International Airport to Hilton San Francisco Union Square will range from $23-38.
### MEETING AT A GLANCE

#### MONDAY, SEPTEMBER 11
- 8:00 am – 5:00 pm: Inspectors Training Workshop
- 1:00 pm – 5:00 pm: Pre-Meeting Symposium - A Retrospective Perspective on HLA (separate registration fee) (pg. 6)
- 5:00 pm – 6:00 pm: First Time Attendee & New Member Reception
- 6:00 pm – 7:00 pm: Opening Session - This Was Your Life
- 7:00 pm – 9:00 pm: Welcome Reception with Exhibits & Posters
- 10:30 am – 12:30 pm: Exhibit Hall Open
- 10:00 am – 12:00 pm: Symposium II: B Cells (B cell / Immunoglobulin Biology/Plasma Cells (pg. 8)
- 12:00 pm – 2:00 pm: User Group Meetings
- 2:00 pm – 3:30 pm: Concurrent Oral Abstract Sessions (pg. 8)
- 2:00 pm – 7:00 pm: Exhibit Hall Open
- 3:30 pm – 4:00 pm: Coffee Break with Exhibits
- 4:00 pm – 5:30 pm: Coffee Break with Exhibits
- 5:30 pm – 7:00 pm: IHIWC Update

#### TUESDAY, SEPTEMBER 12
- 8:30 am – 9:30 am: Keynote Address
- 9:30 am – 10:00 am: Coffee Break with Exhibits
- 10:00 am – 12:00 pm: Symposium I: Immunotherapy Therapy (pg. 7)
- 12:00 pm – 2:00 pm: User Group Meetings
- 2:00 pm – 3:30 pm: Scholar Award Abstract Session
- 2:00 pm – 3:30 pm: Exhibit Hall Open
- 3:30 pm – 4:00 pm: Coffee Break with Exhibits
- 4:00 pm – 5:30 pm: Concurrent Oral Abstract Sessions (pg. 7)
- 4:00 pm – 5:30 pm: Workshop Sessions (pg. 7)
- 5:30 pm – 7:00 pm: Poster Reception with Exhibits
- 7:00 pm – 9:00 pm: ARB Inspectors and International Reception (invitation only)

#### WEDNESDAY, SEPTEMBER 13
- 6:30 am – 8:30 am: The Tulip Run – ASHI's 5K Run/Walk (separate registration fee)
- 8:30 am – 9:30 am: Scientific Award Presentation: Rose Payne Awardee
- 9:30 am – 10:00 am: Coffee Break with Exhibits
- 10:00 am – 12:00 pm: Exhibit Hall Open
- 12:00 pm – 2:00 pm: User Group Meetings
- 2:00 pm – 3:30 pm: Concurrent Oral Abstract Sessions (pg. 8)
- 2:30 pm – 6:30 pm: Workshop Sessions (pg. 8)
- 3:30 pm – 4:00 pm: Coffee Break with Exhibits
- 4:00 pm – 5:30 pm: Coffee Break with Exhibits
- 5:30 pm – 7:00 pm: IHIWC Update

#### THURSDAY, SEPTEMBER 14
- 8:00 am – 9:30 am: Scientific Award Session
- 9:30 am – 10:00 am: Coffee Break with Exhibits
- 10:00 am – 12:00 pm: Exhibit Hall Open
- 10:00 am – 12:00 pm: Symposium III: Precision Medicine/ Predictive Medicine - Precision Medicine and Predictive Analytics (pg. 9)
- 12:00 pm – 2:00 pm: User Group Meetings
- 2:00 pm – 3:30 pm: Concurrent Oral Abstract Sessions (pg. 9)
- 3:30 pm – 4:00 pm: Workshop Sessions (pg. 9)
- 4:00 pm – 5:30 pm: Coffee Break
- 9:00 pm – 11:00 pm: IHIWC Update
- 9:00 pm – 11:00 pm: Networking Event

#### FRIDAY, SEPTEMBER 15
- 8:30 am – 10:00 am: The First STAR (Sensitization in Transplantation: Assessment of Risk) Workgroup Updates
**MONDAY, SEPTEMBER 11, 2017**

11:00 am – 8:00 pm  | Registration Open

8:00 am – 5:00 pm  | Inspectors Training Workshop

1:00 pm – 5:00 pm  | Pre-Meeting Symposium - A Retrospective Perspective on HLA (Additional Registration Fee)

1:00 pm - 1:30 pm  | Blood Antigen/Antibody Recognition  
Glenn Rodey, MD, Retired  
Baylor College of Medicine  
Hesperus, CO

1:30 pm – 1:45 pm  | Panel Discussion  
Panel: Howard Gebel, PhD, D(ABHI), Emory University Hospital, Atlanta, GA, Peter Nickerson, MD, FRCP, University of Manitoba, Winnipeg, MB and George Vlad, PhD, Columbia University, New York, NY

1:45 pm – 2:15 pm  | Structure  
Pamela Bjorkman  
California Institute of Technology Pasadena, CA

2:15 pm – 2:30 pm  | Panel Discussion  
Howard Gebel, Peter Nickerson, George Vlad

2:30 pm – 2:45 pm  | Coffee Break

2:45 pm – 3:15 pm  | Peptide Recognition/Antigen Presentation/T Cells  
James McCluskey, MD, FAA, FAHMS  
University of Melbourne  
Parkville, Victoria, Australia

3:15 pm – 3:30 pm  | Panel Discussion  
John Hansen, Nicole Valenzuela, PhD, UCLA Immunogenetics Center, Los Angeles, CA and Adriana Zeevi, PhD, D(ABHI), UPMC Presbyterian Shadyside, Pittsburgh, PA

3:30 pm – 4:00 pm  | Impact of Polymorphism on HLA Typing  
Peter Parham, PhD  
Stanford University, Stanford, CA

4:00 pm – 4:15 pm  | Panel Discussion  
John Hansen, Nicole Valenzuela, Adriana Zeevi

4:15 pm – 4:45 pm  | HLA and Transplantation  
Frans Claas, PhD  
Leiden University Medical Center  
Leiden, Netherlands

4:45 pm – 5:00 pm  | Panel Discussion  
John Hansen, Nicole Valenzuela, Adriana Zeevi

5:00 pm – 6:00 pm  | First Time Attendee & New Member Reception

6:00 pm – 7:00 pm  | Opening Session – This Was Your Life  
Moderators: Howard Gebel, PhD, D(ABHI), Emory University Hospital, Atlanta, GA and Nicole Valenzuela, PhD, UCLA Immunogenetics Center, Los Angeles, CA  
Walter Bodmer, PhD, FRCPath, FRS  
Oxford University  
Oxford, Oxfordshire, United Kingdom  
Laureate Professor Peter Doherty  
University of Melbourne  
Melbourne, VIC, Australia

7:00 pm – 9:00 pm  | Opening Reception with Exhibits

**TUESDAY, SEPTEMBER 12, 2017**

7:30 am – 6:00 pm  | Registration Open
8:30 am – 9:30 am  Keynote Address:
The Killer Defence
Moderators: Michael Gautreaux, PhD, D(ABHI), Wake Forest School of Medicine, Winston-Salem, NC and Anat Tambur, DMD, PhD, D(ABHI), Northwestern University, Chicago, IL
Laureate Professor Peter Doherty
University of Melbourne
Melbourne, VIC, Australia

9:30 am – 10:00 am  Coffee Break with Exhibits

10:00 am – 12:00 pm  Symposium I:
Immunotherapy Therapy
Moderators: Adriana Zeevi, PhD, D(ABHI), UPMC Presbyterian Shadyside Laboratories, Pittsburgh, PA and Elaine Reed, PhD, D(ABHI), UCLA Immunogenetics Center, Los Angeles, CA

10:00 am – 10:40 am  ID
Catherine Bollard, MD
Children’s National and
The George Washington University
Washington, DC

10:40 am – 11:20 am  Autoimmunity
Gerald Nepom, MD, PhD
Benaroya Research Institute
Seattle, WA

11:20 am – 12:00 pm  Cancer
Stanley Riddell, MD
Fred Hutchinson Cancer Research Center
Seattle, WA

12:00 pm – 2:00 pm  User Group Meetings

2:00 pm – 7:00 pm  Exhibit Hall Open

2:00 pm – 3:30 pm  Scholar Award Abstract Session
3:30 pm – 4:00 pm  Coffee Break with Exhibits
4:00 pm – 5:30 pm  Abstract Session 1
4:00 pm – 5:30 pm  Workshop 1 – Round Table Discussion

4:00 pm – 5:30 pm  Workshop 2 – Retention and Recruitment
John Cardella, MBA, MT(ASCP)
Emory Healthcare
Atlanta, GA

5:30 pm – 7:00 pm  Poster Reception with Exhibits
7:00 pm – 9:00 pm  ARB Inspectors and International Reception (Invitation Only)

WEDNESDAY, SEPTEMBER 13, 2017

6:30 am – 8:30 am  The Tulip Run – ASHI’s 5K Run/Walk (Additional Registration Fee)

8:00 am – 7:00 pm  Registration Open

8:30 am – 9:30 am  Scientific Award Presentation:
Rose Payne Awardee

9:30 am – 10:00 am  Coffee Break with Exhibits
10:00 am – 12:00 pm  | Symposium II: B Cells  
(B Cell/Immunoglobulin Biology/Plasma Cells)  
Moderators: Howard Gebel, PhD, D(ABHI), Emory University Hospital, Atlanta, GA and Nicole Valenzuela, PhD, UCLA Immunogenetics Center, Los Angeles, CA

2:45 pm – 3:30 pm  | Chimerism Testing and Engraftment Monitoring  
Sebastian Heidt, PhD  
Leiden University Medical Center, Leiden, Netherlands

2:30 pm – 6:30 pm  | Exhibit Hall Open

3:30 pm – 4:00 pm  | Coffee Break with Exhibits

4:00 pm – 5:30 pm  | Directors’ Forum  
Technologists’ Forum

5:30 pm - 7:00 pm  | IHIWS Update  
Moderator: Marcelo Fernandez-Vina, PhD, D(ABHI)  
Stanford University School of Medicine  
Palo Alto, CA

8:00 am – 10:00 am  | EmoryPlasma Cells in Transplantation – “It Doesn’t End at B Cells”  
Frances Lee  
Emory University  
Atlanta, GA

10:00 am – 10:40 am  | Immunoglobulin Rep. To Track B Cell Immunity  
Stephen Quake  
Stanford University  
Stanford, CA

10:40 am – 11:20 am  | From Benchtop to Bedside  
E. Steve Woodle, MD  
University of Cincinnati  
Cincinnati, OH

11:20 am – 12:00 pm  | Overview of 17th IHIWS; 17th IHIWS Summary: NGS for HLA; 17th IHIWS Summary: Immunogenetics of HSC Transplantation  
Marcelo Fernandez-Vina, PhD, D(ABHI)  
Stanford University School of Medicine  
Palo Alto, CA

10:30 am – 12:30 pm  | Exhibit Hall Open

12:00 pm – 2:00 pm  | User Group Meetings

2:00 pm – 3:30 pm  | Abstract Session 1  
Abstract Session 2

2:00 pm – 3:30 pm  | Workshop 3 – Case Study

2:00 pm – 3:30 pm  | Workshop 4 – Immunoassessment

2:00 pm – 2:45 pm  | Permissible Mismatches and Donor Selection  
Maura Rosetti, PhD  
University of California, Los Angeles  
Los Angeles, CA

2:00 pm – 4:00 pm  | Informatics of the 17th IHIWS; 17th IHIWS Summary: Population Genetics  
Steven Mack, PhD  
Children’s Hospital Oakland Research Institute  
Oakland, CA

5:50 pm - 6:10 pm  | 17th IHIWS Summary: Epitope Analyses  
Dolly Tyan, PhD, D(ABHI)  
Stanford University  
Palo Alto, CA
THURSDAY, SEPTEMBER 14, 2017

7:30 am – 5:00 pm  Registration Open

8:00 am – 9:30 am  Scientific Award Session

9:30 am – 10:00 am  Coffee Break with Exhibits

10:00 am – 12:00 pm  Symposium III: Precision Medicine/Predictive Medicine – Precision Medicine and Predictive Analytics  
(Not Eligible for CME Credit)

Moderators: Michael Gautreaux, PhD, D(ABHI), Wake Forest School of Medicine, Winston-Salem, NC and John Schmitz, PhD, D(ABMLI, ABHI), UNC Chapel Hill, Chapel Hill, NC

10:00 am – 10:40 am  Predictive Medicine  
Richard Scheller  
23andMe, Inc.  
Mountain View, CA

10:40 am – 11:20 am  UC Centralized Data Warehouse for Population Scale Precision Medicine  
Helen Heslop, MD  
Baylor College of Medicine  
Houston, TX

11:20 am – 12:00 pm  Big Data and Predictive Analytics in Transplantation  
Dorry Segev, MD, PhD  
Johns Hopkins University  
Baltimore, MD

2:00 pm – 3:30 pm  Workshop 6 – Everything You Wanted to ASK About HLA But Were Afraid To

Peter Nickerson, MD, FRCPC  
University of Manitoba  
Winnipeg, MB, Canada

2:45 pm – 3:30 pm  Workshop 6 – Everything You Wanted to ASK About HLA But Were Afraid To

Cathie Murphy, PhD  
Southwest Immunodiagnostics, Inc.  
San Antonio, TX

3:30 pm – 4:00 pm  Coffee Break
FRIDAY, SEPTEMBER 15, 2017

8:00 am – 10:00 am  Registration Open

8:30 am – 10:00 am  The First STAR (Sensitization in Transplantation: Assessment of Risk) Workgroup Updates
Moderators: Anat Tambur, DMD, PhD, D(ABHI)Northwestern University Chicago, IL and Peter Nickerson, MD, FRCPC University of Manitoba Winnipeg, MB, Canada

8:30 am - 8:50 am  Technical Primer
Frans Claas, PhD
Leiden University Medical Center
Leiden, Netherlands

8:50 am - 9:10 am  Immunobiology
Howard Gebel, PhD, D(ABHI)
Emory University Hospital
Atlanta, GA

9:10 am - 9:30 am  Approaches to Patients with Immunological Memory
Kathryn Tinckam

9:30 am - 9:50 am  Approached to Patients with Naïve Memory
Patricia Campbell, BMChB, FRCP
University of Alberta
Edmonton, AB, Canada

4:00 pm – 5:30 pm  Symposium IV: Awards, Business Meeting & Updates

9:00 pm – 11:00 pm  Networking Event
**How to Register**

Registering online is the preferred registration method***: [2017.ashi-hla.org/](http://2017.ashi-hla.org/)

*** Please note that if you are registering online you will be expected to pay for the meeting registration fees at the end with a credit card. If you would prefer your payment be processed some other way, you must complete a registration form (which can be downloaded on our website) and send it in with payment. You will not be registered until your payment is processed.

**Mail Form To:**
ASHI Executive Office
1120 Route 73, Suite 200
Mt. Laurel, NJ 08054

**Email or Fax Form To:**
Email: meetings@ashi-hla.org
Fax: 856-439-0525

All questions regarding registration as well as general meeting questions should be directed to ASHI at 856.380.6889 or meetings@ashi-hla.org

**Important Dates**

**Early Bird Registration Deadline**
Thursday, July 20, 2017

**Housing Deadline**
Monday, August 21, 2017

**Registration Cancellation Deadline**
Friday, August 11, 2017

**43rd Annual Meeting**
Monday, September 11 – Friday, September 15, 2017