



**Location:** Westin Arlington Gateway in Arlington, Virginia

**About the HESI Annual Meeting:** The HESI annual meeting draws a diverse participant base that includes scientists from the pharma, chemical, agricultural chemical, and consumer products industrial sectors as well as academic, research foundation, NGO, clinical, and government regulatory and research scientists from around the world. Despite their diverse backgrounds, these scientists share an interest in HESI because of their commitment to resolving critical health and safety challenges through innovative and shared use of resources, expertise, and networks. HESI is a global, nonprofit organization that serves as a multi-sector coordinating platform for scientific progress in the human and environmental health arenas.



### **June 7, 2016**

**8:00 am – 11:30 am HESI Board of Trustees Meeting**

**11:30 am – 11:45 – Adjourn Full Board Meeting and BREAK**

**11:45 am – 12:30 pm - Board of Trustees PSSC Meeting with HESI Scientific Committee Leaders**

This meeting will provide an informal opportunity to discuss how the Board can better serve the needs of HESI's scientific committees to help them fulfill their scientific potential.

### **June 7, 2016 PLENARY MEETING**

**1:00 pm – HESI Assembly Meeting: Welcome, Organizational Update, and Meeting Goals,** HESI Chair, Herman Autrup

**1:15 pm - HESI: A Year of Impact and Change** (Programs, Partners, and Strategic Plan) – HESI Executive Director, S Pettit and HESI President, T Pastoor

**2:00 pm - HESI Science from Research to Application – Case Studies from 2016.** Moderator, HESI Vice-Chair, Ernie Harpur

- Enhancing Safety through Improved Systems Biology
  - HESI Genomics Committee - miRNA body map project – *Allison Harrill, PhD, University of Arkansas for Medical Sciences*

- HESI Developmental and ReproTox Committee – FcRN tissue histology project. *Graeme Moffat, PhD, Amgen*
- Building Confidence in Data for Decision-Making
  - HESI Immunotox Committee – Cytokine release assay ring trial. *Ellen Evans, PhD, Pfizer*
  - HESI Bioaccumulation Committee – Fish hepatic metabolism ring trial – *Kellie Fay, PhD, EPA*

**3:20 20 minute BREAK**

- Protecting Health through Novel Data Integration Frameworks
  - HESI Alternatives to Animals for Ecotox Committee – Developing an Eco-TTC – *Scott Belanger, P&G*
  - HESI Frameworks for Intelligent Non-animal Testing -Framework Development. *Alan Boobis, Imperial College London*
- Shaking up the System
  - HESI Genotoxicity Committee – A ‘Clean Sheet’ approach to genotox testing – *Maik Schuler, Pfizer*
  - HESI Risk21 Program – RISK21 Case Studies and Implementation – *Tim Pastoor, Syngenta*

**4:45 pm Break**

**5:00 pm Meeting Current and Pending Human and Environmental Health Challenges – How can we do better? Perspectives from Leading Health & Environment Foundations.**  
*Moderator: Lois Lehman-McKeeman, HESI Vice-President.*

**Panelists:**

Melissa L Meeker, Executive Director, **Water Environment and Water Resource Research Foundation**  
 Katharine Kreis, Director of Strategic Initiatives for International Development, **PATH**  
 Heather Lane Chauny, Foundation Relations and Strategy Advisor, **Family Health International Foundation**,

**Panel Discussion:** Each panelist will provide a 2-3 minute overview of the focus of their organization and then a cross-panelist discussion will be facilitated to address:

- What do you see as key gaps in the funding space to address current and emerging health and environmental challenges?
- What do you see as the key gaps in facilitation or coordination in addressing current and emerging health and environmental challenges?
- What models of problem resolution have you seen that worked well in addressing issues of concern to your foundations? What hasn't worked?
- What are emerging needs?

**6:00 pm Adjourn, Reception and HESI POSTER SESSION**



**June 8, 2016**



**CITE**

COMBINING INTERDISCIPLINARY & TRANSLATIONAL EXPERTISE

9:00 am – 11:30 am      **HESI CITE Seminar: *Getting to novel scientific solutions and reproducing them.*** Moderator – *Syril Pettit, HESI Executive Director*

*Speakers:*

**Mathematical modelling in the biosciences - do the numbers add up?** Dr. Anthony Holmes, NC3Rs, Head of Technology Development

**10% of the time it works every time - Recognizing sloppy science.** Dr. Glenn Begley, Independent

**Improving Openness and Reproducibility of Scientific Research** Dr. Tim Errington, 'Metascience Lead (Lead of Reproducibility Project: Cancer Biology)', Center for Open Science

**DISCUSSION:** How will these threads combine and drive investment and innovation in future science?

12:00 -1:00      LUNCH

**1:00 – 4:30 pm      HESI Emerging Science Session**

*This session provides an opportunity for new scientific proposals, as submitted to HESI through HESI's open 'Emerging Issues Process', to be presented to the participants for consideration as potential new HESI programs. Additionally, this session includes an invited speaker on a contemporary area of emerging science.*

1:00 – 1:15 pm      Welcome and Session Introduction - HESI EIC Chair, Dr. J Manautou (U Conn)

1:15 – 2:15 pm      Emerging Issues Lecture (confirmed): Dr. Ronald Weiss, Professor of Biological Engineering, Massachusetts Institute of Technology. *The Present and Future of Synthetic Biology for the Health & Environmental Sciences.*

2:15 pm – 2:30 pm      break

2:30 pm – 4:30 pm      **HESI Emerging Issues New Topic Presentations**

2:30 – 2:40      The HESI Emerging Issues Process – HESI EIC Chair, J Manautou

2:40 – 3:15      Status Update on HESI's Emerging Science Projects Launched Last Year  
CT-Tracs: Cell Therapy Safety and Tracking – Presented by Project Co-  
Chair, Bill Shingleton

3:15 – 4:30      **Proposals for 2016**

- The Microbiome in Human Health. D Mendrick, FDA National Center for Toxicological Research and Dr. Tim Gant, Public Health England
- Harnessing Expanding Exposure Monitoring Paradigms – a data interpretation toolbox and quality criteria for citizen scientists. E Jones, ExxonMobil Biomedical Sciences and Charlene McQueen.

4:30 pm      **Closing Remarks and Recognitions, Incoming HESI Chair, Ernie Harpur**

**Adjourn**