



October 2013

Accelerating Innovation – HESI at NASA.

On 7 November 2013, HESI Executive Director Syril Pettit will participate as a speaker at NASA's National Human Health and Performance Center ([NHHPC](#)) workshop on "Accelerating Innovation: New Organizational Business Models." The session will also feature speakers from Harvard Business School, the Conrad Foundation, and NASA and will be attended by public and private sector members of the NHHPC. A panel of executives from industry, government, academia, and non-profit organizations will discuss models for accelerating innovation across sectors. It will surely be an interdisciplinary event for HESI!



IWGT and ICEM Meetings in Brazil. Two HESI committees will participate in these meetings. The HESI Genetic Toxicology Technical Committee will sponsor and participate in the 6th International Workshop on Genotoxicity Testing (IWGT) on 31 October—2 November 2013 and the 11th International Conference on Environmental Mutagens (ICEM) on 3–8 November 2013 in Foz do Iguassu, Brazil.

HESI will also host the following additional events at the ICEM meeting:

- Tuesday, 5 November 2013 – lunchtime session on "Advancing Science through International Collaborations: The Health and Environmental Sciences Institute"
- Thursday, 7 November 2013 – HESI Genomics Committee-sponsored symposium on "Genomic Approaches for Biomarker Development and Safety Assessment".

Additional information on both meetings can be found [here](#).

HESI at SETAC North America Annual Meeting in Nashville, Tennessee. The Society of Environmental Toxicology and Chemistry North America [Annual Meeting](#) will include the following HESI activities:

- Sunday, 17 November 2013 – The HESI Bioaccumulation Project Committee will sponsor a professional training course on "***In Vitro* Methods for the Determination of Test Chemical Metabolism Utilizing Fish Liver Subcellular Fractions and Hepatocytes.**" The hands-on course will be hosted in the laboratory of Dr. Frederick P. Guengerich at Vanderbilt University, with lectures and instruction from Drs. Karla Johanning (KJohanning Consultancy LLC), Kellie Fae (US EPA), John Nichols (US EPA), Michelle Embry (HESI), Frederick Guengerich (Vanderbilt

University), and Mary Jo Bernhard (Procter & Gamble). Click [here](#) for more information and to register for the course or contact Dr. Michelle Embry (membry@hesiglobal.org).

- Tuesday, 19 November 2013 – Dr. Jennifer Young Tanir (HESI) will present a poster on **“Developing Guidance for Alternative Chemical Assessments,”** providing an update about the HESI Sustainable Alternatives Subcommittee, during the Risk Management, Remediation, or Science Policy poster session.
- Wednesday, 20 November 2013 – Members of the HESI Bioaccumulation Project Committee will highlight the January 2013 Terrestrial Bioaccumulation workshop with three presentations during the **“Advances in the Estimation and Assessment of Terrestrial Bioaccumulation”** platform session. Presentations will be given by Drs. Frank Gobas (Simon Fraser University), Jason Conder (ENVIRON), and Duane Huggett (University of North Texas).
- Wednesday, 20 November 2013 – Dr. Michelle Embry will give a PechaKucha talk on **“Alternative Methods for Fish Testing: HESI Program Initiatives”** in a special session on [Animal Alternatives Strategies and Testing Approaches](#) hosted by the SETAC Animal Alternatives Advisory Group (AAAG). The session will be held from 6:30 pm to 8:00 pm and is co-sponsored by the SETAC AAAG, HESI, Procter & Gamble, Mary Kay Cosmetics, Shell, American Cleaning Institute, and the Personal Care Products Council.

HESI Committees to Participate in the SRA Annual Meeting in Baltimore, Maryland. The Society for Risk Analysis (SRA) Annual Meeting will include two symposia featuring HESI committees:

- Tuesday, 10 December 2013 – “Symposium (T3-E): Risk 21 Tiered Approach for Exposure Estimation for Human Risk Assessments” will feature the work of the HESI RISK21 Technical Committee and its Exposure Subteam.
- Wednesday, 11 December 2013 – “Symposium (W3-A): Risk Assessment, Policy Learning & Economic Opportunities in Safer Chemical Decision-Making” will include a multi-disciplinary view of this problem, growing out of discussions of the HESI Sustainable Alternatives Subcommittee.
- Wednesday, 11 December 2013 – “Symposium (W2-B): Evaluating Causality in Epidemiological Studies” will feature key considerations of using epidemiological data in risk assessment from the HESI Epidemiology Subcommittee.

UPCOMING HESI WORKSHOPS

Advances in Assessing Adverse Epigenetic Effects of Drugs and Chemicals. The HESI Genomics Committee is organizing this workshop in Washington, DC, on 18 November 2013. This event will address epigenetics and its potential applications in toxicology, discuss the current status of different areas of epigenetics research, provide an overview of available methods, and use case studies to expand on topics with potential relevance for toxicological assessment. For more information, visit the workshop [website](#) or contact Dr. Raegan O’Lone (rolone@hesiglobal.org). Registration closes 1 November.



HESI Co-Sponsors SOT CCT FutureToxII Workshop. The HESI Project Committee on Distinguishing Adverse from Non-Adverse/Adaptive Effects will co-host a 16-17 January 2014 Society of Toxicology (SOT) Contemporary Concepts in Toxicology (CCT)

Workshop titled *FutureToxII: In Vitro Data and In Silico Models for Predictive Toxicology*, in Chapel Hill, NC. FutureToxII will provide a forum to address progress and advances toward a paradigm where improvements to predictivity and concordance are based on *in vitro/in silico* approaches that are integrated with systems biology. An overarching goal is to clarify the usefulness and validity of new and emerging technologies and approaches, so that expectations can be managed in both the regulatory and regulated scientific communities. Breakout groups will provide an opportunity for detailed scientific discussion on how the biological pathways of interest will be elucidated, characterized, and qualified for “Adverse Outcome Pathways” (AOPs) and their applications in basic research and safety assessments. The Organizing Committee for the FutureToxII workshop includes Dr. Douglas Keller (Sanofi US), Co-Chair of the HESI Adverse/Adaptive Project Committee, and Ms. Nancy Doerrer (HESI). Sponsors include SOT, Elsevier, the Hamner Institutes for Health Sciences, HESI, and the University of North Carolina. Registration is open. Click [here](#) for more information.



HESI's 25th Anniversary! Mark your calendars for HESI's 25th anniversary celebration at the 10–11 June 2014 Annual Meeting in Washington, DC.

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FROM THE EXECUTIVE DIRECTOR

Initiating and maintaining a contemporary HESI research portfolio requires continued input from our HESI stakeholders. This month, HESI's call for new 'emerging issues' topics has been distributed to HESI members as well as posted on more than a dozen scientific professional society bulletin boards and newsletters circulating around the globe. We encourage you to talk with your colleagues, submit a proposal, and help generate timely science for a safer, more sustainable world.

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