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ILSI Annual Meeting 2012 Registration Is Open!

ILSI, ILSI North America, the ILSI Research Foundation, and ILSI HESI are proud to organize the 2012 Annual Meeting.

This year's meeting in Phoenix, Arizona, USA offers attendees the once-a-year chance to share ideas, discuss science and health trends at the local and

regional level, and plan how the ILSI network can collectively contribute to improved human and environmental health. [See page 6 for Annual Meeting Details!](#)

ILSI Mourns the Loss of Barry Zoumas

It is with great sadness ILSI announces the passing of Barry Zoumas, PhD, 69, after a sustained battle with cancer. Dr. Zoumas had been active with ILSI since its incorporation in 1978, working closely with ILSI founder Alex Malaspina, PhD, on ILSI's original caffeine research. He represented the Hershey Foods Corporation until his retirement in 1997.



After retirement, Dr. Zoumas joined the faculty at the Pennsylvania State University as the Alan R. Warehime Professor of Agribusiness and Professor of Food Science and Nutrition. He remained very active in ILSI, serving as ILSI North America President (2003-2008) and Chair of the ILSI Board of Trustees (2008-2009).

In his five-year term as ILSI North America president, Dr. Zoumas oversaw the development and implementation of two strategic plans, strengthened the organization's financial position, and ensured continuity during the recruitment and hiring of two executive directors. His quiet, good-natured leadership was instrumental in guiding the organization through dynamic times.

Given his involvement with ILSI since its beginning, it was appropriate Dr. Zoumas was elected Chair of the ILSI Board of Trustees on its 30th Anniversary. Dr. Zoumas was passionate about collaboration and, as Chair, gently encouraged ILSI to achieve more in the way of intra-entity cooperation and partnership.

ILSI is honored Dr. Zoumas volunteered his scientific expertise and leadership for so many years. ILSI offers its sincerest condolences to his wife Rosemary, his daughter Christine, and his sons Larry and Lee. ILSI and ILSI North America have made contributions in his memory to the Foundation for the Mount Nittany Medical Center, State College, Pennsylvania.

NanoRelease: Where Are We Now?

Background, Workshop Summary, and Next Steps

Most of the scientific literature on nanomaterials is focused on the potential toxicity and hazards of nanoparticles that are made in the laboratory, with only a handful of publications focused on exposures to what is released from actual uses of the nanomaterials in products in commerce today. The physics of nanomaterials in many cases means that the released material is likely to be quite different from the “pristine” material studied in the laboratory. This suggests there is a data gap between statements of hazard and evaluations of risk.

To address this gap, the Research Foundation Risk Science Innovation and Application Center (RSIA) initiated the NanoRelease project by convening a Steering Committee from a broad range of experts across industry, government, and NGO groups.

Since the project’s inception, the Steering Committee has defined the objectives and outcomes of the project, as well as considered which nanomaterial applications have the greatest need for release measurement method development. A core belief of the Steering Committee is that progress in understanding needs related to release measurement for nanomaterials can best be achieved by focusing on specific materials and release scenarios across the life cycle of the uses of those materials. By building a platform for evaluating methods for common uses and of materials in commerce, RSIA is building the kind of information needed to understand real risks.

[— See NanoRelease Workshop Outcomes, page 3](#)

ILSI Argentina and Food Safety

In May 2011, ILSI Argentina convened the meeting “Food Safety: Industry, University, and Government.” Prof. Dr. Fernando Quevedo Ganoza, internationally-recognized expert and founder of the Food Microbiology Laboratory, Pan American Zoonoses Centre of the Pan American Health Organization, discussed his experience in addressing food safety challenges. A session of the ILSI Argentina Biosecurity and Risk Analysis Committee was facilitated by Dr. Fernando Cardini, and, rounding out the two day-event, Drs. Quevedo Ganoza and Juan Carlos López Musi, ILSI Argentina President, visited the National Food Institute to discuss the importance of public and private sectors working together to ensure food safety.

You can find more information (in Spanish) about the ILSI Argentina Biosecurity and Risk Analysis Committee webpage at: [Biosecurity and Risk Analysis Committee](#)

You can also see a video conversation with Dr. Quevedo Ganoza on the ILSI Argentina website (also in Spanish): [Video Conversation with Prof. Dr. Quevedo Ganoza](#)

A New Forum for Biotechnology

ILSI’s work in biotechnology spans more than two decades and currently several entities – branches, international committees, and the ILSI Research Foundation – engage in research, outreach, training, and other activities related to the use of biotechnology in food and fiber production. The number of ILSI activities in biotechnology is expanding as the use of the technology grows, and, while many of these activities are collaborative, there has been no formal mechanism for exchange of ideas and perspectives on biotechnology among various parts of ILSI. A new forum is changing this.

Spearheaded by Andrew Roberts, PhD, ILSI Research Foundation Center for Environmental Risk Assessment (CERA), ILSI has formed an entity-to-entity forum where ILSI program staff and staff leadership will share information on their biotechnology related activities – past, present, and future. Forum participants will not set agendas for the various ILSI entities, but rather will share experience, contacts, and programmatic best practices with the specific objective of fostering collaborative projects whenever possible.

Ten of ILSI’s regional and national branches and the ILSI Health and Environmental Sciences Institute, the ILSI International Food Biotechnology Committee, and the ILSI Research Foundation participated in a kick-off, organizational conference call in September 2011. The group is enthusiastic about improving the exchange of information across time zones and geography. Forum participants will meet quarterly and will provide highlights of their discussions (through the ILSI newsletter and website).

Call for Food Packaging Abstracts

5th International Symposia on Food Packaging November 2012, Berlin, Germany

ILSI Europe is convening its 5th International Symposia on Food Packaging. Held every four years, these internationally recognized meetings discuss the science that ensures the safety and quality of food packaging. The upcoming symposium will emphasize innovations in the area of food packaging.

ILSI Europe is accepting presentation proposals through 31 December 2011. For more information and how to submit your proposal, visit: [Packaging Materials Symposia 2012](#)

NanoRelease Workshop Outcomes *continued from page 2*

The Steering Committee first built a comprehensive list of applications of engineered nanomaterials and an exhaustive information catalogue of available relevant studies, projects, guidance, and reviews of methods related to the release of particles from matrices containing engineered nanomaterials. The list included approximately 20 nanomaterials known to be used in a range products, from sports equipment and textiles to semiconductors and automotive parts.

The Steering Committee then developed and applied a set of criteria to rank the list of nanomaterial applications. The group went through two rounds of ranking, with discussion and consultations with colleagues at their home institutions in between. At the conclusion, two nanomaterials (nano-silver and multi-walled carbon nanotubes) were selected to be the focal points of discussion at a workshop designed to enhance the SC member's understanding of the nanomaterials and the methods currently used to measure release.

In May 2011, 45 experts from academia, industry and US and Canadian government agencies convened at a workshop at US Environmental Protection Agency (EPA). Presentation on recent findings and difficulties surrounding understanding and measuring release from matrices containing either nano-silver (n-Ag) or multi-walled carbon nanotubes (MWCNTs) were presented so Steering Committee members could make a final selection of the nanomaterial and matrix to carry forward to the next phases of the project. A series of panel discussions complemented the presentations, giving the Steering Committee even more insight to the complexities associated with investigating MWCNTs and n-Ag.

Following the workshop, the Steering Committee met to discuss what was learned and to make the difficult choice of selecting the first engineered nanomaterial to use to develop and test release measurement methods. After considerable discussion, the committee selected MWCNTs embedded within polymer matrices.

The committee is now selecting the specific polymer to use in methods development, in consideration of applications such as:

- Fabrics such as flame-retardant toys & blankets
- Tennis racquets, bicycle frames, baseball bats, sports safety equipment
- Automobile parts
- Boat hulls
- Coaxial cable

With funding from US Environmental Protection Agency, Environment Canada, and the American Chemistry Council, the project will convene expert groups to develop a state of the science evaluation of material properties and measurement methods relevant to understanding the release of MWCNT from polymers used in products in commerce. As part of this state of the science document, the project will develop methods needs and study plans to address them.

In subsequent phases, the project will conduct testing and methods development using an interlaboratory testing approach where US and Canadian government, industry, and academic laboratories are convened using a "cooperative research and development agreement" approach often used by US government agencies to enable technology transfer between public and private sectors.

For more information on RSIA's NanoRelease project, contact RSIA director, Richard Canady, PhD (rcanady@ilsa.org).

Copies of presentations and posters from the May workshop are available online at: [NanoRelease May 2011 Workshop](#).

Details on the selection process and the current project on MWCNT and polymer can be found on the RSIA NanoRelease webpages: [NanoRelease](#)

ILSI-India Conference on Food Safety

ILSI-India, in partnership with the Ministries of Health and Technology and Research, Sri Lanka; the Industrial Technology Institute, Sri Lanka; and the Sri Lanka Standards Institute, organized the conference "Food Safety: Science, Evidence, and Regulations." Held in Colombo, Sri Lanka, the event had 27 expert presentations and participants discussed in detail: food safety hazards; how to detect and control food contamination; establishing food control systems; and the value of using Codex Alimentarius as an international point of reference on food safety regulation.

Copies of the presentations and a report of conclusions and consensus recommendations and is available online:

[ILSI-India Conference on Food Safety](#)

New Publications

ILSI Europe

Water Use for Oil Crops: Current Water Use and Future Outlooks

F. Ludwig et al. A Report of the ILSI Europe Report Series, 2011

Many parts of the world are considered to be water stressed through a combination of decreasing reliability in rainfall and growing population. Agriculture is one of the biggest users of water and it is important to ensure that water for food production is used efficiently and sustainably. Most work on agricultural water use has focused on cereal crops such as wheat, rice and maize but there is a need to consider how other crops can be sustainably sourced. Vegetable oil crops are an important agricultural commodity and were chosen as a model for assessing how to judge water sustainability for internationally sourced crops and vegetable products. The main aim of the expert group, whose work is summarized in this report, was to evaluate globally grown oil crops in terms of rain and irrigated water use.

This report is available online: [Water Use for Oil Crops](#)

Application of the TTC concept to unknown substances found in analysis of foods

S. Koster, et al. Food and Chemical Toxicology
Volume 49, Issue 8, August 2011, Pages 1643-166

The report, commissioned by the ILSI Europe Environment and Health Task Force, includes consideration of pathways of unintended commingling, and the risks (assuming there is an identified hazard) this may present to neighboring or subsequent food crops, plus potential food chain hazards arising from various unintended commingling risks, including potential mixture with food crops or crop by-products during storage, and processing.

This review does not consider risks to the environment, gene flow, worker exposure or risks associated with unintended consumption of the crop in the field by animals or humans. In the case of traits introduced by GM, such risks are addressed through legislation granting approval to cultivate GM crops.

This work complements work by EFSA to assess risks associated with the development of genetically modified plants for non-food uses, and the European Medical Agency (EMA) in developing procedures to deal with the use of higher plants to produce active substances for pharmaceutical use.

This publication is available online at: [Application of TTC concept](#)

The Quarterly Newsletter of the International Life Sciences Institute®

Packaging Materials 9: Multilayer Packaging for Food and Beverages

J. Dixon A Report of the ILSI Europe Report Series, 2011

The report is the ninth in the report series on food packaging materials, which was commissioned by the ILSI Europe Packaging Materials Task Force. The report series aims to give a concise overview on specific packaging materials with regard to their uses as packaging material, their basic chemistry, safety and toxicology, regulation and environmental fate. The reports mainly address an audience in the packaging-producing and packaging-using sectors.

The last 50 years have seen major changes in the way that food is produced and retailed. This resulted in changing requirements for packaging, which have become more and more difficult to achieve with single materials. To achieve the required performance it has become necessary to combine the properties of different materials. This report deals with the way in which multilayers achieve this.

This report is available online: [Packaging Materials 9](#)

Nutrition and Immunity in Man, 2nd Edition

S. Gredel, An ILSI Europe Concise Monograph, 2011

Optimal immune function requires a delicate balance between destruction of invading pathogens and avoidance of self-destruction. To maintain this balance, the immune system is very sensitive to deficiencies in nutrients, explaining the long-known association of under-nutrition with impaired immune function and increased susceptibility to infection. More recently, it has become evident that immune function is also sensitive to microorganisms and food constituents that interact with specific receptors and cells of the immune system and thereby modulate its functions. It is therefore timely to update the previous ILSI Europe Concise Monograph "Nutrition and Immunity in Man" that was published in 1999. The present monograph provides an updated overview of immune function, includes newly discovered elements such as Treg and Th17 cells, summarizes the effects of specific dietary components on immune function, and highlights the resulting impact on health.

This monograph is available online: [Nutrition and Immunity in Man](#)

New Publications (continued)

ILSI Southeast Asia Region

Nutrigenetics and Nutrigenomics: Viewpoints on the Current Status and Applications in Nutrition Research and Practice

M. Fenech, et al. *Journal of Nutrigenetics and Nutrigenomics*, 2011; 28;4(2):69-89.

Nutrigenetics and nutrigenomics hold much promise for providing better nutritional advice to the public generally, genetic subgroups and individuals. Because nutrigenetics and nutrigenomics require a deep understanding of nutrition, genetics and biochemistry and ever new 'omic' technologies, it is often difficult, even for educated professionals, to appreciate their relevance to the practice of preventive approaches for optimizing health, delaying onset of disease and diminishing its severity. ILSI SEA Region in collaboration with CSIRO of Australia organized a Seminar & Workshop on the Fundamentals of Nutrigenomics and Its Application in October 2009 in Thailand. The outcome of the meeting led to the writing of this review that discusses (i) the basic concepts, technical terms and technology involved in nutrigenetics and nutrigenomics; (ii) how this emerging knowledge can be applied to optimize health, prevent and treat diseases; (iii) how to read, understand and interpret nutrigenetic and nutrigenomic research results, and (iv) how this knowledge may potentially transform nutrition and dietetic practice, and the implications of such a transformation.

This article is available online: [Nutrigenetics and Nutrigenomics](#)

ILSI Southeast Asia Region Continues Its Community Partnership with the Sydney West Area Health Service

In a second collaborative meeting with the Sydney West Area Health Service and its Centre for Health Innovation and Partnership, ILSI Southeast Asia Region will co-organize a meeting on 7 – 8 December 2011 in Sydney, Australia. The meeting will provide a forum to share Australian and global best practices on how to encourage and enable healthy eating and active living by building successful community initiatives through innovative partnerships, food interventions, lifestyle and physical activity in households, workplaces, and schools. An update on evidence-based understanding of issues related to the promotion of sustainable community health will be shared.

Please visit the ILSI Southeast Asia website for more information:
[2nd ILSI-CHIP Symposium](#)

ILSI HESI Adopts a New Vision and Mission Statement and Strategic Plan

In June 2011, the HESI Board of Trustees and Official Representatives of the HESI Assembly of Members conducted a strategic planning meeting to refresh HESI's mission and vision and set new strategic directions for the years 2011-2015. The interim final Strategic Plan and Profile will be formally approved by the HESI Board of Trustees in January 2012.

HESI Vision

Creating science-based solutions for a sustainable, healthier world.

HESI Mission

Engage scientists from academia, government and industry to identify and resolve global health and environmental issues.

HESI Strategic Plan: 2011-2015

[see graphic on page 7](#)

A Strategic Profile accompanies the Strategic Plan, and outlines accountability, expectations, and responsibilities for the fulfillment of each strategic priority and its supporting objectives.

The Strategic Plan and Profile can be accessed on the HESI website at www.hesiglobal.org.

For more information about HESI's Strategic Plan, contact Nancy Doerrer (HESI Associate Director) at ndoerrer@hesiglobal.org.

2012 Annual Meeting Partnerships for a Healthier World

20 - 25 January 2012
Arizona Grand Hotel
Phoenix, Arizona, USA

“Best Buy” Registration Open through 23 October

Complete information on registration, program, and hotel reservations are available online:

[Annual Meeting 2012](#)

ILSI, ILSI North America, ILSI HESI and the ILSI Research Foundation are proud to organize the 2012 Annual Meeting: Partnerships for a Healthier World.

ILSI's Annual Meeting gives members, science advisors, staff, and guests an ideal opportunity to meet with their colleagues from around the globe. Representatives from all 15 branches and the Research Foundation are expected to participate in an exciting series of scientific sessions and program planning meetings.

This year's meeting in Arizona offers attendees the once-a-year chance to share ideas, discuss science and health trends at the local and regional level, and plan how the ILSI network can collectively contribute to improved human and environmental health.

Join us. Exchange ideas face-to-face with your colleagues and international experts on a broad spectrum of topics:

- The role of biomarkers
- Attributable risk and food safety
- Barriers to success in combating obesity
- Sustainable solutions for water reuse
- And more!

Share your own insights on how ILSI and its partners can help improve our understanding of all these issues and more.

Calendar of Events

ILSI Europe Symposium “Health Benefits of Foods - From Emerging Science to Innovative Products”

5 – 7 October 2011
Prague, Czech Republic
[Health Benefits of Foods](#)

Workshop on Safety Assessment of Novel Proteins and GM Crops (ILSI HESI in conjunction with ILSI Focal Point in China and ILSI IFBiC)

8 November 2011
Beijing, China
[Program PDF](#)
For more information: HESI@hesiglobal.org

ILSI Southeast Asia Region Seminar on Food Consumption Data and Exposure Assessment

10 November 2011
Kuala Lumpur, Malaysia
[Event Details and Agenda](#)

ILSI Europe International Symposium on Food Packaging – Scientific Developments supporting Safety and Innovation

14 – 16 November 2012
Berlin, Germany
[First Announcement](#)

2nd ILSI-CHIP Symposium on Community Health

7 – 8 December 2011
Sydney, Australia
[Event Details and Program](#)

ILSI Annual Meeting

20 – 25 January 2012
Phoenix, AZ, USA
[ILSI Annual Meeting](#)

Visit ILSI’s consolidated Calendar of Events for additional meetings worldwide:

[ILSI Calendar of Events](#)

HESI Strategic Plan: 2011-2015

For more information about HESI's Strategic Plan, contact Nancy

Doerrer (HESI Associate Director) at ndoerrer@hesiglobal.org.

