



## Goals and key thematic areas of ISES Europe

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# ISESISIAQ 2019

## KAUNAS · LITHUANIA

Joint meeting of the  
**INTERNATIONAL SOCIETY OF EXPOSURE SCIENCE**  
and the  
**INTERNATIONAL SOCIETY OF INDOOR AIR  
QUALITY AND CLIMATE**

**August 18 - 22, 2019**

The built, natural, and social  
environments: impacts on  
exposures, health and  
well-being



# PROGRAM

## TY-SY-C1: Towards a European Exposure Science Strategy – Developing a roadmap 2020-2025-2030

### TH-SY-C1-13

#### Goals and key thematic areas of ISES Europe

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European legislations create unique demands for the European exposure science community. Human and environmental exposure assessments for chemicals are required as part of the risk assessments undertaken in the context of various legislations. In addition, regulations on general product safety, classification, labelling and packaging, control of air quality and major-accident hazards require input on exposure. Moreover, security-driven exposure assessments are being increasingly requested related to the misuse of chemical, biological, radiological and nuclear materials. Knowledge gaps, method and tool limitations, new needs together with longer-term EU strategies and several new trends all add additional challenges to the field of exposure science calling for the development of a European Strategy for Exposure Science. As a first step of strategy building, ISES Europe organized its first workshop in Germany aiming at (1) to design the backbone of The European Exposure Science Strategy with a roadmap 2020-2030; (2) to create working groups with their own goals and agenda in alignment with the overall strategy; (3) to identify actions for further research and policy needs in Europe; and (4) to attract new ISES Europe members. The workshop was structured around six thematic areas identified via two stakeholder surveys on needs for exposure science in Europe being 1. Data repositories and analytics, 2. Regulatory exposure assessment, 3. Exposure data production and monitoring, 4. Building partnerships and collaboration, 5. Exposure assessment methods and tools, and 6. Exposure science education and communication. In July 2019 ISES Europe organizes its second workshop to develop thematic action plans with roadmaps until 2030. The themes overarch the classical silos of occupational, consumer and environmental exposure and stimulates discussion and cooperation among ISES Europe members. This presentation will give an overview of the key thematic areas of ISES Europe and how ISES Europe intends to shape exposure science in Europe.

**Keywords:** exposure factors, exposure models

### TH-SY-C1-14

#### Toward a European Exposure Science Strategy

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In Europe, exposure science is closely related to various regulations. However, recent scientific advances face difficulties in finding their way into regulatory common practices. This is a major driver for the European Chapter of the International Society of Exposure Science (ISES Europe) to initiate developing an urgently needed «European Exposure Science Strategy» by soliciting exposure scientists from all relevant stakeholder communities. In building this European strategy for exposure science, we will focus on the following set of six overarching objectives: (i) To build a European Programme and related infrastructure to generate, assess, exchange, and communicate experimental and model-based exposure information; (ii) To advance exposure science with focus on closing existing knowledge gaps, building science-based and operational data and methods, fostering integration and interaction of disciplines involved in exposure science; (iii) To provide guidance and recommendations for exposure assessment in science and policy; (iv) To foster the inclusion of realistic exposure